Servizi Ecologici

Franchini®

Ecologio®

INNOVATION AND TECHNOLOGY
in the environmental sector since 1979

Ecoelogio®

The term Ecoelogio represents a concept that goes beyond the simple definition of “ecological services.”
It’s not just about what we do, but how we do it.
The word combines two dimensions:

- ***Eco***, which refers to the environmental field, sustainability, and a commitment to practices that respect and enhance our ecosystem;
- ***elogio***, which evokes recognition, appreciation, and positive value.

From this combination comes the idea of a company that doesn’t just provide ecological solutions, but is committed to carrying them out with quality, seriousness, and responsibility, to the point of deserving praise.
Ecoelogio thus becomes a sort of “ethical signature,” testifying to the desire to transform services into a model to be recognized and appreciated.
In other words, Ecoelogio is the symbol of an approach that combines professionalism and attention to the environment, with the aim of leaving a positive mark not only in practical results but also in the perception of those who trust us. 8It is an invitation to see ecological services not as a duty, but as an added value for the community and for the future.

Table of Contents

Franchini Ecological Services

Franchini Ecological Services S.p.A. was born from a passion for the “land” and has always paid particular attention to customer care. The company’s activities began in the 1930s, when Luigi Franchini carried out mechanical-agricultural work for third parties. The “Thresher” business ended when the lands of the foothill area were allocated to more profitable industrial and residential activities.

That work experience, however, was not lost. His sons, Giuseppe and Giacomo Franchini, transformed the agricultural tractors and tankers into rudimentary vacuum trucks, the first embryo of the modern machinery used today to perform maintenance cleaning services for civil and industrial sewage networks, inheriting the spirit and values taught by their father: customer focus, honesty, a spirit of sacrifice, and dedication to work.

The company is now led by the third generation of the Franchini family, Stefano, Gianluigi, Andrea, and Filippo, with their sons Michele and Simone, a further sign of continuity: each of them holds a strategic role in the corporate structure. With them, Franchini Ecological Services S.p.A. has embarked on the path of development and transformation from a family business to a structured and modern company, without ever forgetting the distinctive traits linked to its founder, Luigi. Our company today stands as a point of reference for companies, individuals, and public bodies that need professionals operating in the ecological and environmental services sector.

Franchini Ecological Services S.p.A. has a large fleet of modern and technologically advanced vehicles and equipment capable of responding to every operational need, even in emergencies. The vehicle fleet includes numerous ecological vehicles powered by natural gas.

Some technologies and know-how are conceived, designed, and developed in-house: for example, the mobile plants used in the sludge dewatering sector are designed directly by Franchini's technicians.
Today, the company has highly professional figures at all levels. The workforce is constantly growing both in terms of new hires and, above all, in intrinsic professional quality, thanks to an intense program of preparation and training activities.
The flexibility of the organizational and management structure is designed to be able to manage company dynamics and is constantly updated to respond quickly and professionally to the needs of the work and the specific reference market.

Specialized Consulting

Over the years, Franchini Ecological Services S.p.A. has acquired considerable experience in the environmental sector, enriching the company's resident know-how and expanding the range of services offered.

This technical background has made it possible to activate collaborations and consultations with clients, suppliers, and institutions, through specialist support activities and concrete contributions in the fields of applied research, plant optimization, and technical experimentation.

The ability to dialogue effectively with various players in the sector has represented an added value, strengthening the company's reputation as a reliable and competent partner.

Certifications

Franchini Ecological Services S.p.A. operates with an integrated QUALITY, ENVIRONMENT, SAFETY, AND SOCIAL RESPONSIBILITY system certified by DNV in accordance with the "UNI EN ISO 9001" standard since 21/06/2002, "UNI EN ISO 14001" since 11/09/2008, "SA 8000" since 04/05/2017, "ISO 45001" since 2018, and "UNI EN ISO 50001" since 09/06/2022.

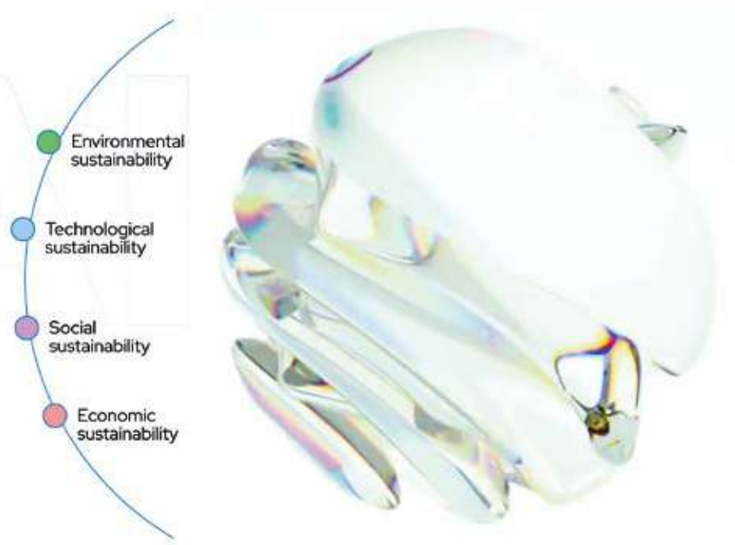
The company is duly registered with the National Register of Environmental Managers, Lombardy Regional Section, under number M100498 in Categories 4, 5, 8, and 9.

Sustainability

The issue of sustainability is very important for Franchini Ecological Services S.p.A. This is not about simple stereotyped definitions aimed at characterizing the company in the eyes of public opinion, but a real internal path shared by multiple areas with the aim of placing the company in the best conditions to achieve true "sustainable development."

The search for the best possible operating methods that contribute to the true, effective sustainability of Franchini Ecological Services S.p.A. is a mission that involves all internal areas and can be summarized in 4 macro-themes of great importance:

- environmental sustainability
- technological sustainability
- social sustainability
- economic sustainability



Environmental Sustainability

Environmental sustainability refers to the ability to maintain the balance between natural resources, the environment, and human activities in the long term, ensuring the conservation and prosperity of ecosystems for present and future generations.

This concept is based on three main pillars:

- responsible and prudent use of natural resources, such as water, energy, forests, soils, and raw materials, avoiding over-exploitation and degradation of the resources themselves, and promoting conservation, recycling, and reuse practices;
- conservation of the ecosystem with the protection of terrestrial, marine, and aquatic ecosystems, preserving biodiversity and preventing pollution by minimizing negative impacts on the environment;
- respect for natural cycles and ecological processes. This implies, for example, reducing greenhouse gas emissions associated with the use of vehicles or the performance of daily activities to mitigate climate change and protect waterways, water resources, and the soil.

Over the years, the environmental aspect has taken on an increasingly central role in the policy of Franchini Ecological Services S.p.A.
The company has made and is continuing to make diversified investments with the aim of further respecting the environment, implementing the synergy between the ecosystem and human activity.

Some of the results achieved:

- withdrawal of only certified green electricity from the grid;
- 372 photovoltaic panels, with a nominal power of 140 kW and 100kW batteries;
- Air conditioning and sanitary hot water heating with electric heat pumps;
- 6,200 sq m of green areas with 100 tall trees and 440 low-to-medium height trees;
- irrigation of green areas with recovered rainwater;
- electric vehicle charging station;
- part of the vehicle fleet is powered by biomethane and diesel-hydrogen;
- part of the vehicles powered by HVO (Hydrogenated Vegetable Oil) which guarantees a 90% compensation of CO2 emissions;
- plastic-free policy.

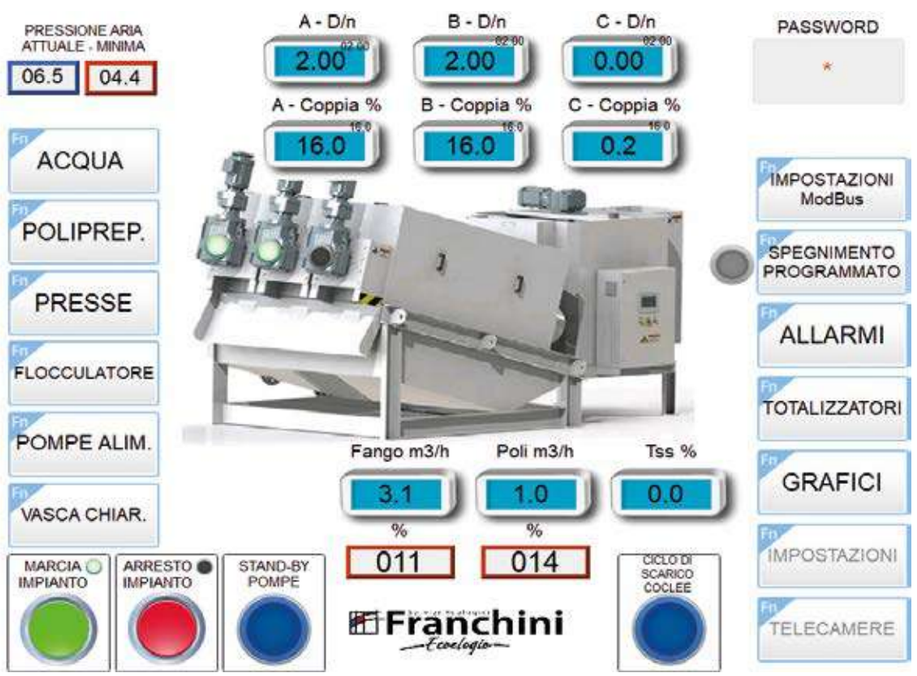
Technological Sustainability

Technological sustainability is a concept that goes hand in hand with corporate innovation; it consists of introducing new processes and continuously improving existing ones.

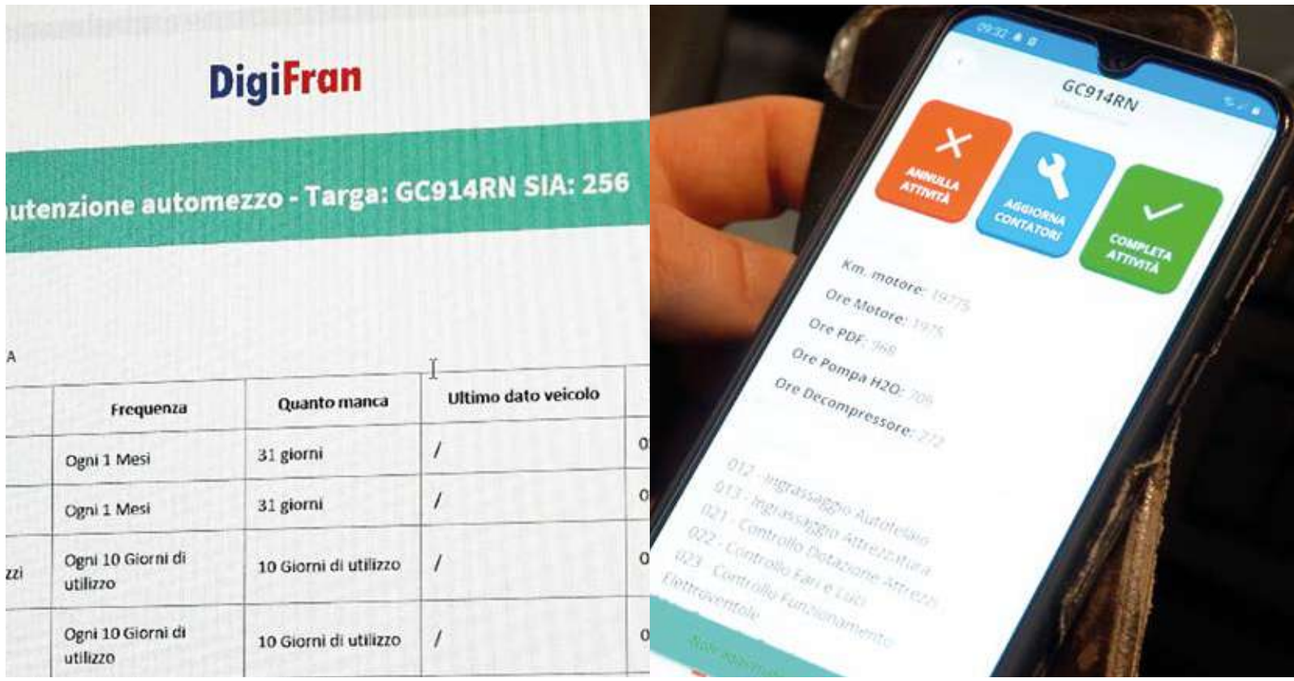
From this perspective, there are numerous aspects to consider:

- preferring high-energy-efficiency technologies that can operate with high performance, low waste, and minimal environmental impact;
- promoting technologies that run on energy from renewable sources;
- designing technologies that use eco-compatible, recyclable, or biodegradable materials;
- using technologies that include a digital interconnection system to ensure:
    - operational efficiency: more efficient control and monitoring of industrial processes and equipment can be achieved;
    - lower environmental impact: the adoption of digital solutions can help reduce the use of physical materials and, consequently, waste emissions;
    - remote management: an even more advanced level of digital interconnection allows for the remote management and control of devices and systems.

Franchini Ecological Services S.p.A. is truly a 2.0 company where technology is at the heart of its processes, making them high-performing.



Over the years, technological choices and know-how have been designed, developed, and nurtured within the company. This has led to a deep technical knowledge of its machinery, a great ability to quickly identify problems and their solutions, and a unique and invaluable skill in innovating and keeping pace with the times, with the aim of enhancing the capabilities of human resources.



The results achieved are very important:

- the new headquarters in Bolgare (BG - Italy) is fully interconnected;
- the mobile sludge dewatering plants are connected to each other;
- thanks to the IoT (Internet of Things) function, 12 mobile decanters, 6 vacuum trucks, and the high-pressure water jetting machine capable of spraying water up to 1000 bar are interconnected with the company's PWA and provide real-time functional process data;
- the planning, management, and monitoring of the company's main activities (cleaning, transport, dewatering) have been digitized;
- maintenance is organized and managed according to a strict schedule of planned activities;
- the company has an in-house laboratory for analyzing sludge samples;
- company smartphones are provided to most operators;
- a large fleet of vehicles with advanced technologies;
- use of 34-inch curved screens.

Franchini Servizi Ecologici Ecologia

Social Sustainability

Social sustainability within a company refers to its ability to operate ethically and responsibly towards employees, society, and the communities in which it provides its services.
Franchini Ecological Services S.p.A. has always been committed to creating value for individuals, placing them at the center of all its activities. First and foremost are its people, who represent the heart and strength of the company. For them, the company goes beyond simple legal compliance, engaging in an active commitment to improve the well-being of individuals and communities, promoting fairness, inclusion, and respect for human rights.

The importance of social sustainability for a company is multifaceted:
- reputation and corporate image;
- attractiveness to talent;
- risk and cost reduction;
- access to new markets and opportunities;
- contribution to social well-being.

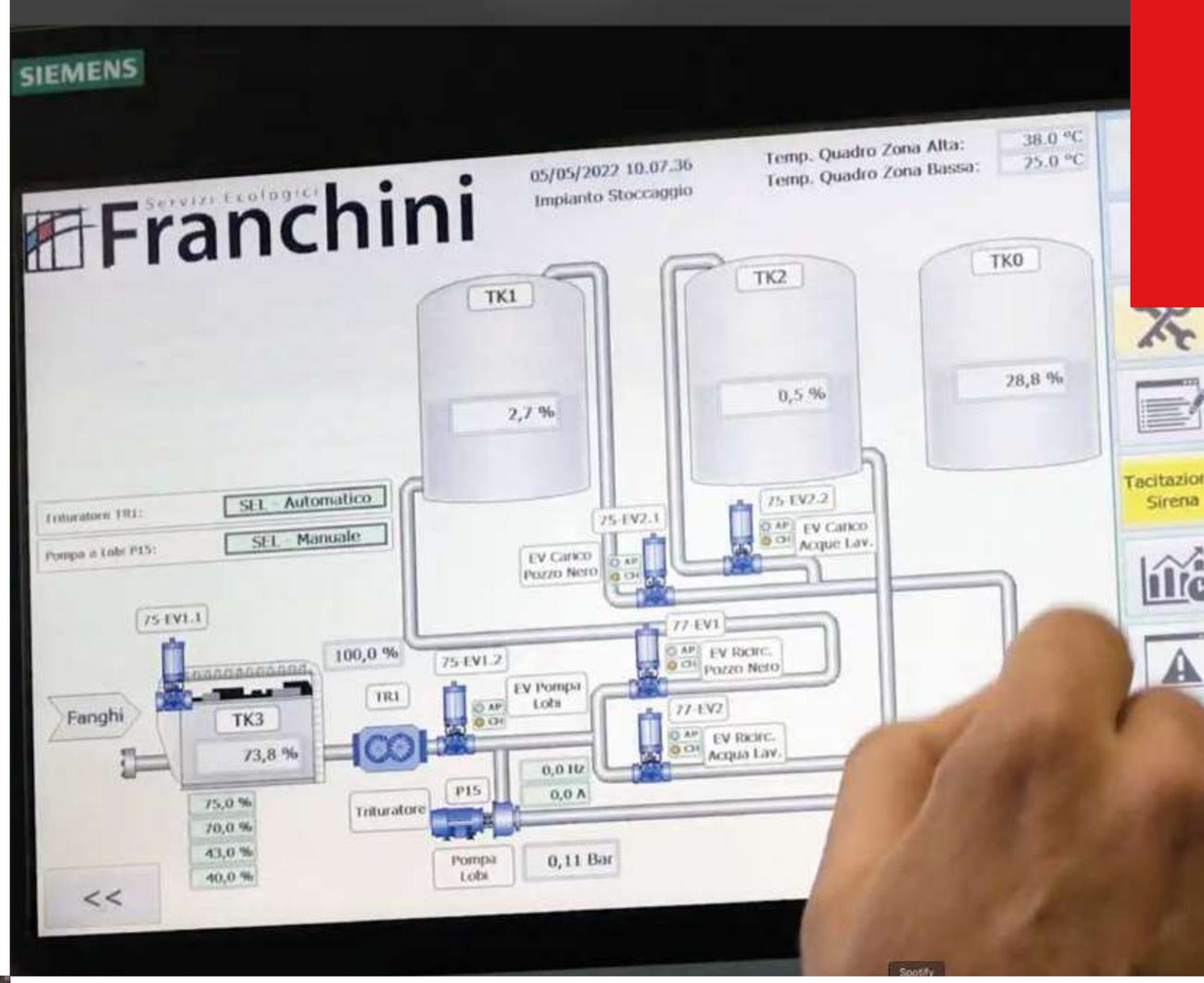
The results achieved over time are very significant:
- the company headquarters is designed to maximize employee comfort;
- workspaces are intelligently lit thanks to numerous motion sensors and self-adapting systems;
- the building was constructed with the most modern thermal insulation technologies available (energy class A4);
- the indoor climate is managed centrally via a control interface for the air handling units and high-efficiency heat pumps installed on the roof: this way, the temperature and humidity of the indoor environments are always monitored and can be easily adjusted to ensure the highest possible well-being;
- the environments are soundproofed;
- the offices were designed as a single open space to encourage socialization and synergies between different operational areas and to facilitate communication among employees;
- the furnishings adapt to the needs and requirements of the people;
- the vehicles are all recent models with cabins equipped with all comforts for the driver;
- each operator is provided with a personal key fob with a maximum monthly spending allowance offered by the company;
- each operator has an extensive supply of clothing and PPE, specifically chosen based on many years of specific experience;
- operators' work clothing is equipped with RFID tags to uniquely associate each uniform with each operator, monitor clothing usage, and reduce loss and waste;
- dozens of safety systems are available for performing work at height or in confined spaces without risk.

Economic Sustainability

Economic sustainability within a company refers to its ability to generate value in the long term, maintaining a balance between its financial activities, its investments, and its profitability. The goal is also achieved through the prudent management of financial resources, operational efficiency, and the ability to adapt to market conditions.

The importance of economic sustainability for a company is evident for several reasons:

- resilience and stability: a financially sustainable company is better able to withstand crises, economic changes, or market disruptions, maintaining a solid financial and operational base;
- growth and development: economic sustainability promotes the gradual and stable growth of the company over time, allowing profits to be reinvested in new opportunities, innovation, and operational improvement;
- consistency and fulfillment of obligations: a financially sustainable company is able to meet its financial obligations, such as paying suppliers, employees, taxes, and loans, avoiding insolvency or default situations;
- impact on the community and the environment: responsible financial management also helps to reduce the negative impact on the environment and the community, for example, through investments in sustainable and responsible practices.



Important, also in this area, are the results achieved:

- strategies to optimize the use of available resources, such as water and energy, to reduce the associated operating costs;
- implementation of recycling programs to reduce waste production and lower disposal costs;
- use of increasingly efficient vehicles and transport methods from an energy and environmental standpoint;
- use of "zero-kilometer" (local) suppliers to minimize environmental and transport costs and to foster the development of the community in which it operates;
- promotion of advanced technologies that require larger investments but can lead to significant long-term savings;
- continuous cost monitoring.

Servizi Ecologici Franchini® Ecologio®

Our Services

Industrial purges

- Cleaning of fermenters
- Cleaning of anaerobic digestors
- Cleaning of process tanks
- Cleaning of fuel tanks
- High-pressure tank cleaning without operator entry
- High-pressure cleaning of structures
- High-pressure hydrodynamic pipe cleaning
- Cleaning of pipe rack piping
- Reclamation of tanks and lagoons
- Cleaning with floating dredge
- Cleaning with underwater ROV

Civil purges

- Cleaning of pipes and drains
- Cleaning of septic and Imhoff tanks
- Cleaning of pump pits
- Cleaning of drains and grates
- Cleaning of soakaway pits
- Cleaning of oil separators

Franchini Servizi Ecologici Ecologia

Sludge Treatment

- Sludge dewatering
- Sludge screening
- Sludge grit removal
- Mobile plant rental
- Process analysis laboratory

Transport and Disposal of Special Waste

- Transport and disposal of liquid waste
- Transport and disposal of solid waste
- Transport and disposal of pumpable sludge waste
- Transport and disposal of shovellable sludge waste
- Asbestos collection and transport

Video Inspections

- Mapping of sewer and other networks
- 3D Georeferencing

Pipe Rehabilitation

- CIPP (Cured-In-Place Pipe) lining
- Packer-based part-liner repair
- Spray lining

Leakage Tests

- Leakage tests for pipes and sewer lines
- Reservoir leakage tests with the “SDT” method
- Tank leakage tests with the “W” method

Gas-Free Certifications

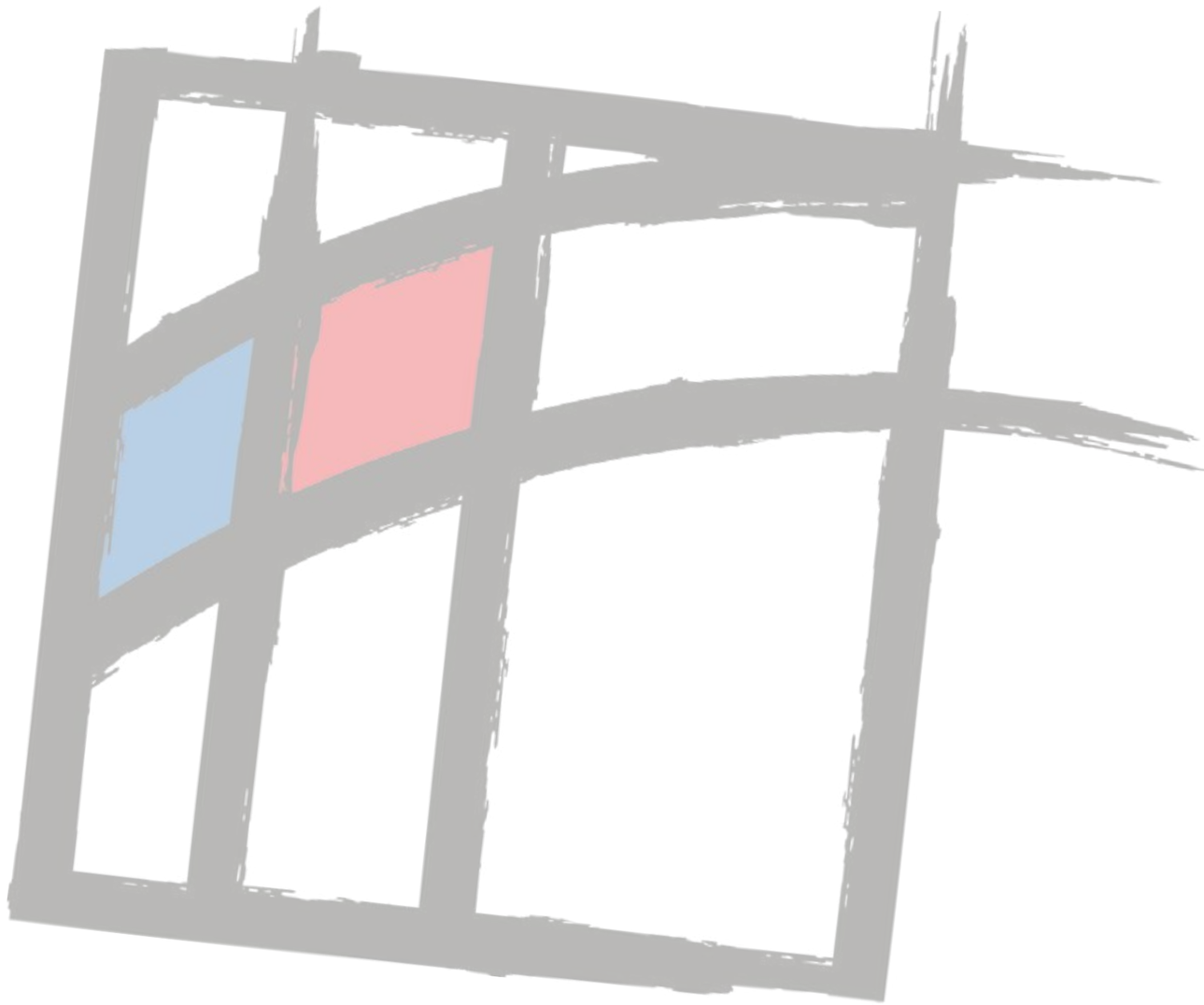
- Gas-free certification for tanks
- Gas-free certification for pipes

Interventions with Divers

- Cleaning of settling tanks
- Cleaning of fire-fighting water tanks
- Cleaning of drinking water intake points

Inerting of Structures

- Inerting of digesters and fermenters with nitrogen
- Inerting of tanks with self-leveling concrete



Industrial Purges

With a widespread presence throughout the national territory, Franchini Ecological Services S.p.A. stands out for its promptness and expertise in offering industrial cleaning services, with a strong commitment to environmental protection and compliance with safety regulations.

In emergency situations, the rapid response of Franchini Ecological Services S.p.A. is decisive, guaranteeing customized solutions for every circumstance, even the most complex and delicate. This is made possible by the careful planning of services and the availability of a fleet of work vehicles and highly specialized operators.

- Cleaning of fermenters
- Cleaning of process tanks
- High-pressure tank cleaning without operator entry
- High-pressure hydrodynamic pipe cleaning
- Reclamation of tanks and lagoons
- Cleaning with underwater ROV
- Cleaning of anaerobic digestors
- Cleaning of fuel tanks
- High-pressure cleaning of structures
- Cleaning of pipe rack piping
- Cleaning with floating dredge

The range of services includes consulting, remediation, and collection, up to the disposal of hazardous and non-hazardous waste.
The vehicle fleet offers versatile technical solutions, capable of meeting every need, thanks to:

- tanks with capacities between 3 and 25 mc;
- high-pressure pumps with power up to 200 HP;
- vacuum pumps with capacities up to 8,500 Nmc/h;
- transfer pumps with capacities up to 180mc/h;
- ADR-compliant setups;
- deodorization systems.

Choose Franchini Ecological Services S.p.A. for a reliable and professional partner in the field of industrial cleaning, ensuring the utmost care for the environment and safety in all intervention processes.

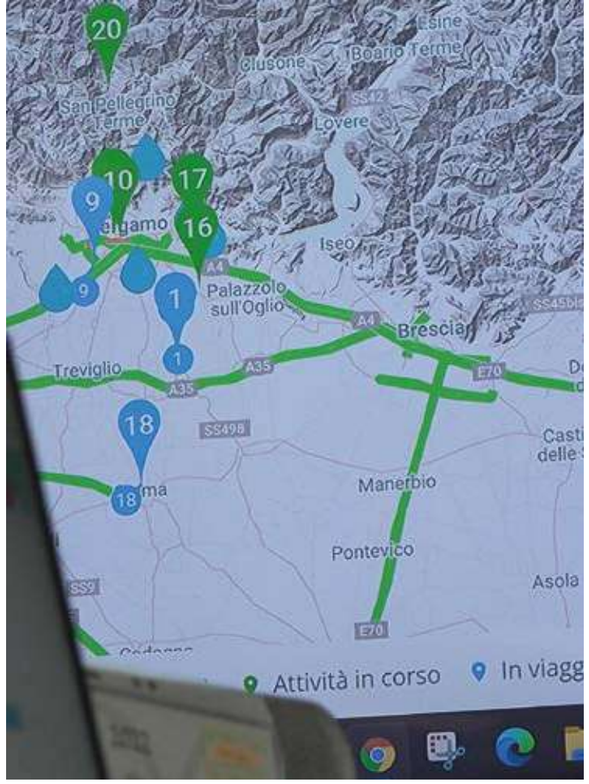
Servizi Ecologici Franchini® Ecologia®

Civil Purges

Franchini Ecological Services S.p.A. is distinguished by its offering of civil and sewer cleaning services with a marked focus on the environment and compliance with safety regulations.
The company has consolidated its reputation by providing a complete and professional service that covers every phase, from initial consultation to remediation, collection, and disposal of hazardous and non-hazardous waste.

The services offered cover the entire province of Bergamo and northern Italy.

- Cleaning of pipes and drains
- Cleaning of septic and Imhoff tanks
- Cleaning of pump pits
- Cleaning of drains and grates
- Cleaning of soakaway pits
- Cleaning of oil separators



We operate through preventive cleaning interventions and, in case of emergencies, we provide an **EMERGENCY SERVICE** active 24 hours a day, 7 days a week.
Thanks to a prompt approach and the use of specialized equipment, we are able to solve specific problems and even very complex situations related to sewer and general civil cleaning.

Our commitment to environmental sustainability is reflected not only in our operational practices but also in the responsible management of waste, ensuring disposal in compliance with current regulations.

Servizi Ecologici Franchini® Ecologia®

Sludge Treatment

The treatment of sludge from wastewater purification is a service of great importance that Franchini Ecological Services S.p.A. offers to companies.
Experience, cutting-edge technologies, and dedicated machinery allow qualified personnel to intervene with different approaches for managing specific problems.

The areas of intervention are:
- sludge dewatering;
- sludge grit removal;
- sludge screening.

These activities can be combined in cases where the process requires all the planned steps, or performed individually if there are particular areas that require that specific type of intervention.

Sludge dewatering

Sludge grit removal

Process analysis laboratory

Sludge screening

Mobile plant rental

Franchini Ecological Services S.p.A. specializes in the dewatering of sludge from wastewater treatment.
We treat:
- biological sludge;
- digested sludge;
- water treatment sludge;
- drilling mud;
- sludge from aggregate washing;
- primary sludge.

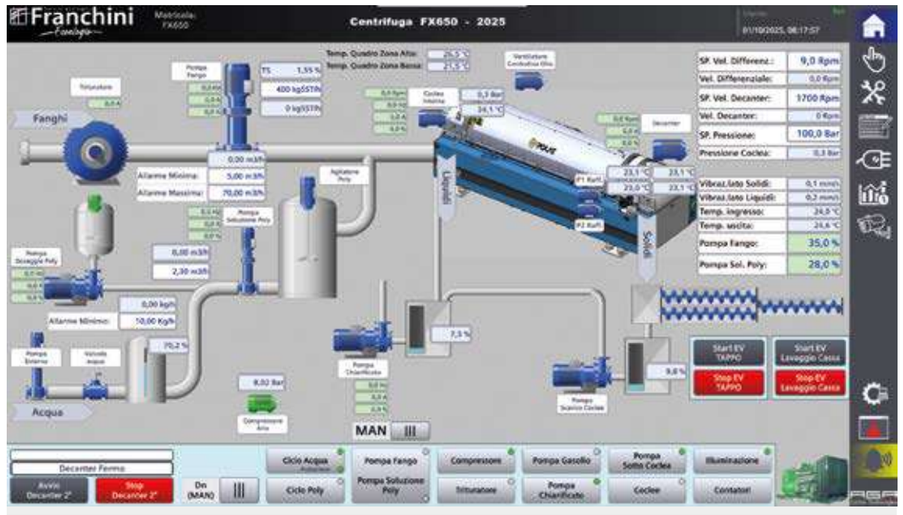
The proposed service consists of dewatering, grit removal, and screening of sludge produced by wastewater treatment processes, carried out using mobile plants positioned directly at the client's operational site.

Servizi Ecologici Franchini® Ecologia®

The service involves the temporary installation of a mobile plant directly at the client's site. Franchini Ecological Services S.p.A. handles transport, setup, operational management, and disassembly, offering a turnkey solution for on-site sludge management.

Generally, the service is offered in a complete package with an operator included to ensure proper plant management and the best dewatering yields. Custom solutions can be evaluated on a case-by-case basis.

Alternatively, a bare rental option is also available: the plant is positioned at the client's site and, after an initial training period, operational management is entrusted directly to the client's internal staff. The plant's activity is, however, always monitored remotely thanks to interconnection systems that allow for constant control of its operation and process parameters. Franchini Ecological Services S.p.A. also guarantees continuous technical assistance and maintenance, thus ensuring reliability and safety even in autonomous management mode.



The mobile plants we have are all of very recent construction, characterized by high technological content and high wastewater treatment potential, such as centrifuges with capacities from 900 to 4000 kg SST/h and a 1200\1200 filter press.

The equipment is designed by our in-house team to achieve maximum operational flexibility and the best process yields during activities.

Transport and Disposal of Special Waste

Franchini Ecological Services S.p.A. offers a specialized service for the management and transport of special waste, focusing mainly on industrial and civil sludge, both hazardous and non-hazardous, including those classified as ADR.

We have a dedicated fleet of latest-generation vehicles, specifically designed for the efficient transport of a wide range of special waste from production, commercial, craft, industrial, construction and demolition, healthcare activities, etc.

Our priority is to ensure full compliance with current regulations, identifying customized solutions to meet the specific needs of our clients.

- Transport and disposal of liquid waste
- Transport and disposal of solid waste
- Transport and disposal of pumpable sludge waste
- Transport and disposal of shovellable sludge waste
- Asbestos collection and transport

Our vehicles are operated by highly qualified personnel and are equipped with the necessary equipment for the safe loading and transport of special waste, which can be hazardous, solid, liquid, pumpable, loose, or packaged in containers.

Franchini Ecological Services S.p.A. guarantees the utmost commitment to precise and punctual planning of collections, ensuring a prompt response to client needs. The objective is to ensure the efficient transport of waste to authorized final destination plants, selected for their environmental focus and their large receiving capacity.

We also offer a comprehensive consulting service on regulatory and technical matters, with the aim of providing the client with safe and appropriate solutions at every level.

We handle everything, from the waste production phase to the final disposal options, ensuring compliance with regulations and safety at all stages of the process, as well as the chemical/physical analysis of the waste itself with possible regulatory consulting support.

Servizi Ecologici Franchini Ecologia

Video Inspections

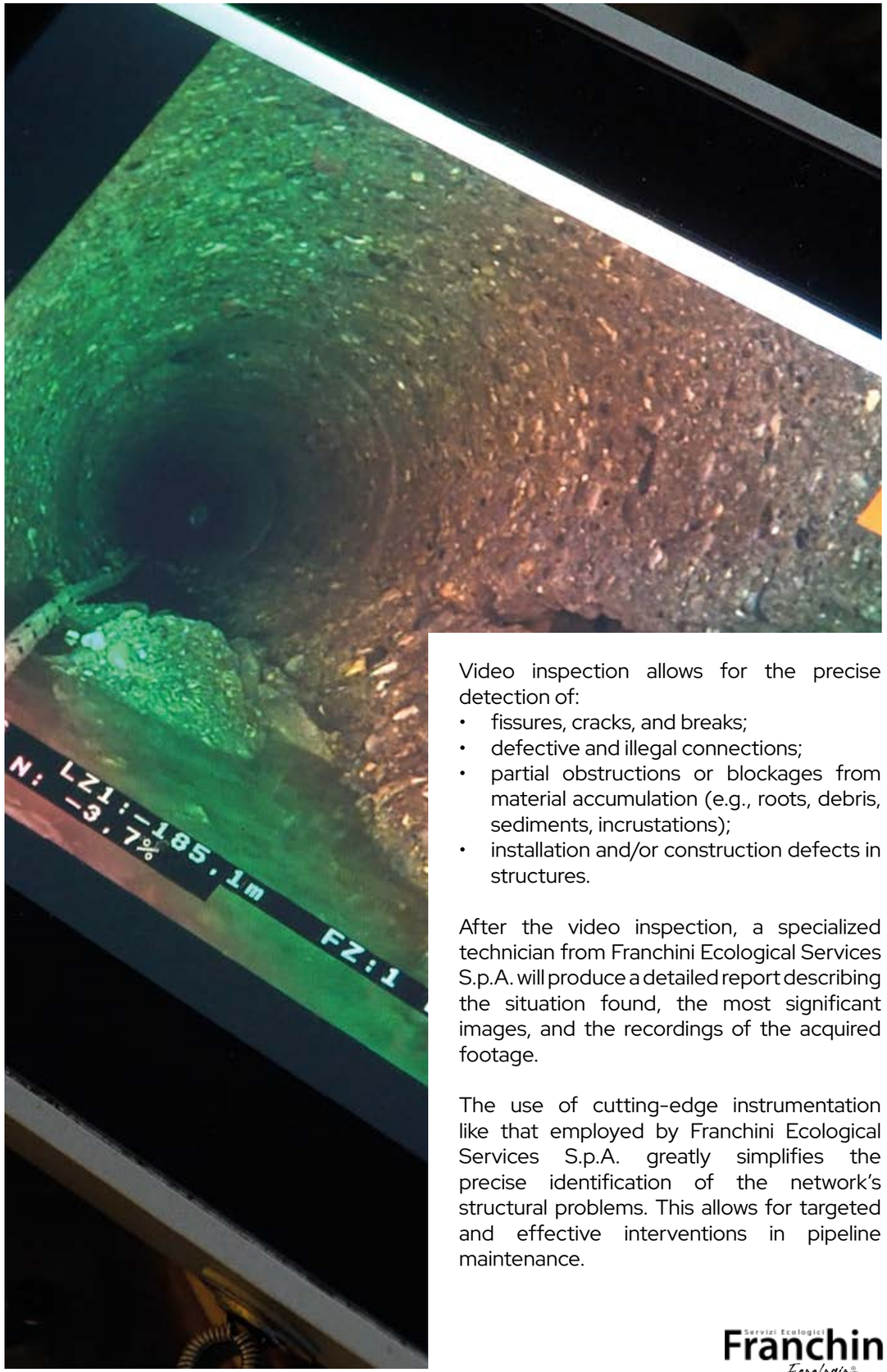
Services for public body | Services for companies | Services for private

The video inspection service for pipes and sewer networks provided by Franchini Ecological Services S.p.A. is an additional and/or complementary element to the network cleaning system.
Its fundamental importance is demonstrated by the ability to conduct a detailed investigation and a video recording of the sewer network's layout and its state of preservation.

Through the use of robotic television probes equipped with high-quality video systems, satellite locators, radio devices, and a computerized mobile system, we are able to perform an in-depth technical study of the pipelines under examination.
This study includes cataloging data on the section's geometry, precisely determining the layout thanks to the 3D georeferencing service, the exact satellite position, the pipe's slope, the location of connections, and the identification of any anomalies such as breakages and root intrusions.

Mapping of sewer and other networks

3D Georeferencing



Video inspection allows for the precise detection of:

- fissures, cracks, and breaks;
- defective and illegal connections;
- partial obstructions or blockages from material accumulation (e.g., roots, debris, sediments, incrustations);
- installation and/or construction defects in structures.

After the video inspection, a specialized technician from Franchini Ecological Services S.p.A. will produce a detailed report describing the situation found, the most significant images, and the recordings of the acquired footage.

The use of cutting-edge instrumentation like that employed by Franchini Ecological Services S.p.A. greatly simplifies the precise identification of the network's structural problems. This allows for targeted and effective interventions in pipeline maintenance.

Servizi Ecologici Franchini Ecologia

Pipe Rehabilitation

Pipe rehabilitation is an intervention that allows for the restoration of damaged or deteriorated pipelines without resorting to demolition or excavation.
Thanks to no-dig technologies, it is possible to intervene from inside the pipeline itself, eliminating inconvenience, reducing work time, and containing costs.
This innovative methodology allows for the preservation of roads, pavements, and structures, while ensuring a solid and lasting result.

The equipment used by Franchini Ecological Services S.p.A. enables excellence in the restoration of extensive lengths of pipelines, pipe racks, and sewer networks.

CIPP (Cured-In-Place Pipe) lining

Packer-based part-liner repair

Spray lining

The procedure developed by Franchini Ecological Services S.p.A. involves precise and complementary operational phases:

- LEAK DETECTION: through dedicated tests, any water leaks in the sewer network are identified, both in private contexts (homes, buildings) and on public road networks.
- VIDEO INSPECTION: using robotic cameras, anomalies in the pipeline are detected and documented: cracks, breaks, structural failures, blockages, or critical points not visible from the outside. This analysis allows for an assessment of the overall condition of the pipe and the design of a targeted intervention.
- REPAIR: the actual rehabilitation takes place in this phase. The goal is to restore hydraulic functionality and structural strength without significantly reducing the useful diameter.

There are several methods:

  - CIPP lining: insertion of a flexible liner impregnated with resin along the entire pipeline; once cured, it creates a new pipe within the existing one.
  - Packer-based part-liner repair: localized application of a resin-impregnated liner only on the damaged section, pushed and inflated into position using a packer.
  - Spray lining: internal coating of the pipeline by spraying special resins or mortars that adhere to the walls, restoring their functionality.

Servizi Ecologici Franchini® Ecologia®

Leakage Tests

Services for public body | Services for companies | Services for private

Franchini Ecological Service S.p.A. operates throughout the national territory to perform leakage tests on pipes, sewer lines, and tanks.

All interventions are carried out by highly specialized operators from Franchini Ecological Services S.p.A., with the aid of equipment and instrumentation that comply with UNI regulatory standards, guaranteeing the best results in terms of safety and quality of the service provided, in full respect of current environmental regulations. Specifically, air or water leakage tests are carried out according to the provisions of the UNI EN 1610 standard.

- Leakage tests for pipes and sewer lines
- Tank leakage tests with the “W” method
- Reservoir leakage tests with the “SDT” method

The leakage tests performed are essentially three types:

- leakage test for pipes and sewer lines: verification of watertightness through air or water tests to confirm the absence of leaks and ensure the reliability of the networks. The test applies to vertical, horizontal, underground, and external pipes, whether they are being decommissioned or are in service;
- tank leakage test with the “W” method: inspection of tightness by filling with water and monitoring the level, ideal for checking for infiltration or leaks;
- reservoir leakage test with the “SDT” method: a non-invasive test that uses advanced detection technologies to ascertain the perfect tightness of underground and above-ground tanks. The test applies to vertical, horizontal, underground, and external tanks/reservoirs, whether they are being decommissioned, are in service, or have single or double chambers.

Upon completion of the leakage test, Franchini Ecological Services S.p.A. issues the client a stamped and signed “testing protocol,” complete with a graph showing the test’s progress.

Servizi Ecologici Franchini Ecologia

Gas-Free Certifications

Before, during, and after any cleaning intervention, assessing the potential explosiveness of the reclaimed space is a crucial step for work safety.

The “gas-free” concept consists of an instrumental verification of the actual condition found inside a tank or a closed confined space. The objective is to identify potential risks related to the composition of the internal atmosphere. Using calibrated and certified measuring instruments, Franchini Ecological Services S.p.A. is able to assess the potential explosiveness of the volume undergoing remediation, thus allowing the atmosphere to be stabilized and made a safe environment over time, also considering variations in temperature and pressure.

Gas-free certification for tanks

Gas-free certification for pipes

The gas-free verification is a requirement imposed by the Regional Agency for the Protection of the Environment of Lombardy, as established by Note DCPREV prot. no. 12026 of August 5, 2010. This procedure certifies the absence of risks related to the presence of flammable or explosive vapors inside the tank.

Furthermore, the gas-free verification certifies the actual health and safety status of confined or inadequately ventilated environments. This type of verification also allows for the ascertainment of real safety conditions before any extraordinary maintenance activities on the structure. At the end of these verifications, the client is issued a Gas Verification Report, drawn up by a duly qualified technician registered with a professional board, which attests that all activities carried out comply with current regulations.

Servizi Ecologici Franchini® Ecologia®

Interventions with Divers

Fire-fighting water tanks, settling tanks, and drinking water intake points are crucial structures for different but equally important reasons. Cleaning these structures is not always possible with automated machinery, no matter how technologically advanced. Sensitivity, accuracy, and the ability to tailor the intervention to specific needs are essential when operating with the support of specialized divers. This method of intervention is preferred when the required cleaning levels are of such high quality that direct human intervention is necessary, and in situations where shutdowns or blockages are not possible. Typically, divers are brought in for the following cases:

- settling tanks: fundamental in wastewater treatment, they are among the most complex structures to keep efficient over time;
- fire-fighting water tanks: essential in fire protection systems, they must be kept clean and operational at all times;
- drinking water intake points: ensuring clean and safe water starts with the maintenance of intake points, which are often small and difficult to access, where only direct human intervention can ensure effective results without compromising water quality.

Cleaning of
settling tanks

Cleaning of
fire-fighting water tanks

Cleaning of
drinking water intake points

Underwater operators work in complete safety even in critical environments, removing sediments, organic materials, and debris that could alter the water's characteristics or obstruct the intakes. Thanks to the use of advanced technologies, such as "dry box" filtration systems and "big bag" containers, it is possible to effectively suction and filter sludge and debris. Every operation is performed in compliance with current regulations and safety protocols, guaranteeing effective and safe interventions.
Nearly half a century of experience throughout Italy guarantees reliability even in the most complex and specific interventions, such as those involving divers for cleaning tanks and drinking water intake points.

Inerting of Structures


Services for public body


Services for companies


Services for private

The inerting of structures consists of applying various techniques, depending on the areas of use and the nature of the substances that come into contact with the treated surfaces, with the objective of reducing or eliminating the presence of oxygen in the structures themselves. Franchini Ecological Services S.p.A. approaches inerting interventions with two distinct methods:

- inerting of digesters and fermenters with nitrogen;
- inerting of underground tanks with self-leveling concrete.

Inerting with an inert gas, such as nitrogen, consists of replacing oxygen to reduce or eliminate the risk of combustion, explosion, or the development of other hazardous phenomena. This activity, carried out on digesters and fermenters, is a necessary procedure to ensure safety during maintenance, cleaning, or repair operations of these plants.


Inerting of digesters and fermenters with nitrogen


Inerting of tanks with self-leveling concrete

At the end of the inerting process, a verification is performed to ensure that the digester or fermenter is completely inert, including measuring the oxygen concentration and performing a leak test.
The nitrogen inerting service for digesters and fermenters by Franchini Ecological Services S.p.A. is performed by qualified personnel using state-of-the-art equipment and technologies.
The company is able to offer a complete and safe service, ensuring maximum protection for workers and the environment.

Inerting with self-leveling concrete for underground tanks is a crucial process to ensure the durability and safety of subterranean structures. Franchini Ecological Services S.p.A. excels in offering this service, ensuring solid protection and a safe environment for your infrastructures. Our inerting practice focuses on two key objectives: eliminating or minimizing the presence of oxygen and applying a protective coating of self-leveling concrete. This process is fundamental to prevent corrosion and extend the service life of your tanks.

Every project is unique, Franchini Ecological Services S.p.A. customizes the process to meet the specific needs of the client's underground tanks. Whether it's tanks for industrial liquids or wastewater, a tailor-made solution is guaranteed that also creates a safe environment, minimizing the risk of infiltration or structural damage. Franchini Ecological Services S.p.A. adopts strict environmental control and safety standards to ensure regulatory compliance and long-term durability, using constantly updated technologies.

Vehicle Fleet and Equipment

Franchini Ecological Services S.p.A. operates with a fleet of vehicles and technologically advanced equipment capable of responding to any need and operational request.

- 20 Vacuum trucks
- 18 3 & 4-axle Tractor Units
- 5 Trucks/Tractors
- 22 Trailers, semi-trailers, and light trailers
- 35 Light trucks and cars
- 2 Mobile sludge grit removal and screening plants
- 8 Mobile plants for high-pressure pipe cleaning, removal of hardened concrete or resin
- 24 Mobile sludge dewatering plants
- 3 Mobile units for video inspection, georeferencing, and network mapping
- 1 Mobile sewer rehabilitation unit
- 1 Floating dredge
- 1 Mobile workshop unit
- 140 Roll-off containers
- 1 Underwater ROV
- 1 Diver unit
- 1 Confined space activity unit
- 1 Leakage test unit
- 1 Roll-off container with dry box

Servizi Ecologici Franchini®
Ecologio

Via Manzoni, 30 | 24060 Bolgare BG
Phone +39 035 42 89 800 | Fax +39 035 42 89 880

Registered with the Bergamo Chamber of Commerce
under no. 00865450167 339
Tax Code and VAT Number 00865450167

info@franchiniservizi.com
www.franchiniservizi.com