



# WASTE

integrated systems for  
the collection of waste  
Solutions meant for the upstanding  
citizen






























RISTORANTE *F. An...*

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**ESN**

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## ESA

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Cutting-edge technology, research and professional ethics are the linchpins of Ecologia Soluzione Ambiente, a company whose business has been revolving around the implementation of forward-looking and environment-friendly solutions since 1966.



Environmental sustainability is the lifeblood of a firm that can boast a decades-long and first-hand experience, as well as international partnerships.

From waste water treatment, ESA has evolved over the years until becoming a five-unit institution offering a broad range of solutions aimed at solving the problems of public administrations, multi-utility businesses, companies and citizens on six different macro-areas: Waste, Depuration, Services Plus, Demil, Reclamation, Sustainable Mobility.



## ENVIRONMENTAL RESPONSIBILITY



We know that our activities as humans have an environmental impact. For this reason, and because we believe that sticking to the core values we trust in enabled us to become a company we are proud to run and work for, we always kept a special eye on issues concerning man-nature relationship and the respect of the environment we live in.

Sharing a path intended to optimise investments and managements costs means researching, studying and building tailored solutions. Thanks to our wealth of knowledge, we are able to fully understand all the needs of those who turn to us, knowing that there are no two customers alike. Every single choice we make aims at defining customized intervention models, designed on a case-by-case basis using as a reference the values of respect and protection of Earth: our only home.







"Treat the earth well: it was not given to you by your parents; it was loaned to you by your children." (Masai proverb)

From the planning stage to the implementation and service delivery ones, we partner with the client by dividing with him whatever enables us to accomplish the final and common goals. Achieving a perfect balance between man, nature, diverse requirements and varying ways of life is the ultimate purpose our company tend towards.

This can only be achieved with excellence as a standard and innovation as a role model. That is why we decided to develop a widespread presence all along the country, adding some instrumental experiences from abroad. And the aim of fulfilling our mission statement rewards us every day with big satisfactions both personally and professionally.

President  
 Enrico Benedetti





## WASTE WATER TREATMENT

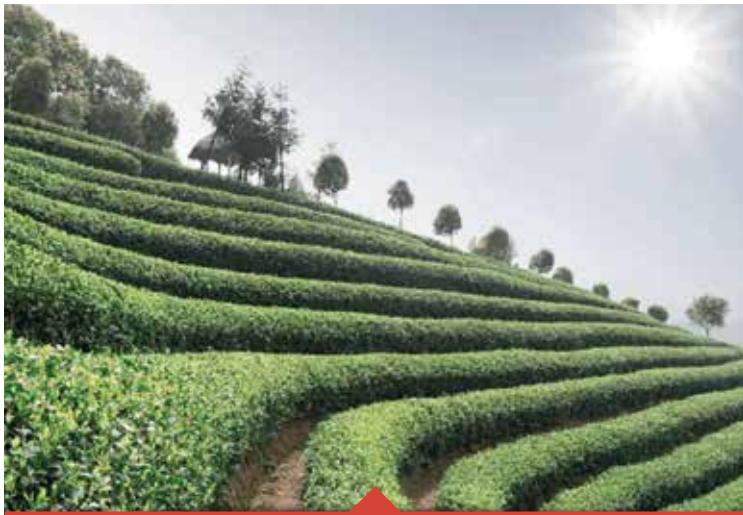


## DEMIL

Purification projects and waters treatment. Ecologia Soluzione Ambiente offers the best solutions for purifying the civil, industrial and waste drainages, as well as the first rain waters, to give back to the community clean water to be reused for different purposes: irrigation, drainage to surface water ways, potabilization and industrial use. At an implementation level, different types of material, can be used: from the lightness of fiberglass, to the consolidated reliability of concrete, to the versatility of polyethylene up to the modularity of steel containers.

Thanks to a consolidated experience that led it to make a solid partnership with DIA (Defense Industries Agency), Ecologia Soluzione Ambiente is now able to propose complete systems, safe and integrated for modern needs of industrial demilitarization, including the disassembly, recycling, of controlled explosives and propellants disposal and the design and implementation of industrial chemical purposely tailored processes, specifically designed for the specific type of materials to be treated and able to guarantee the destruction or reconversion of the explosives and propellants.





## LAND RECLAMATION

Thanks to its technical organization and to specialized professionals, ESA is able to intervene in all cases where it is necessary to secure and reclaim ground water, with historical or present contamination even into underground tanks, manage environmental emergencies, treat industrial waste water and eliminate unpleasant odors resulting from industrial productions. ESA is also able to run field tests and pilot projects that aim to identify which technology is able to ensure the best reclamation results, both on-site and elsewhere. The work is performed in compliance with the regulations in force and, above all, in line with the client's expectations.

Once the intervention has been completed, the territory is returned to its use..



## SERVICE PLUS

The management of the plants, the activities within construction sites and the integrated management of landfills are just some of the services offered by the Services division of Ecologia Soluzione Ambiente, which is proposing itself as sole and highly specialized partner for outsourcing environmental services.

Among the many solutions, ESA also offers the management, the maintenance and the storage of bins and containers, existing on the territory, as well as the computerized census of the latter with mapping and access control and the complete outsourcing of all the management and maintenance activities for the containers fleet.











## WASTE



Opting for an efficient and effective waste management system, choosing the right solution between all the viable options, updating technologies and installations are not only technical matters, but also decisions containing cultural, societal, environmental and economic strands.



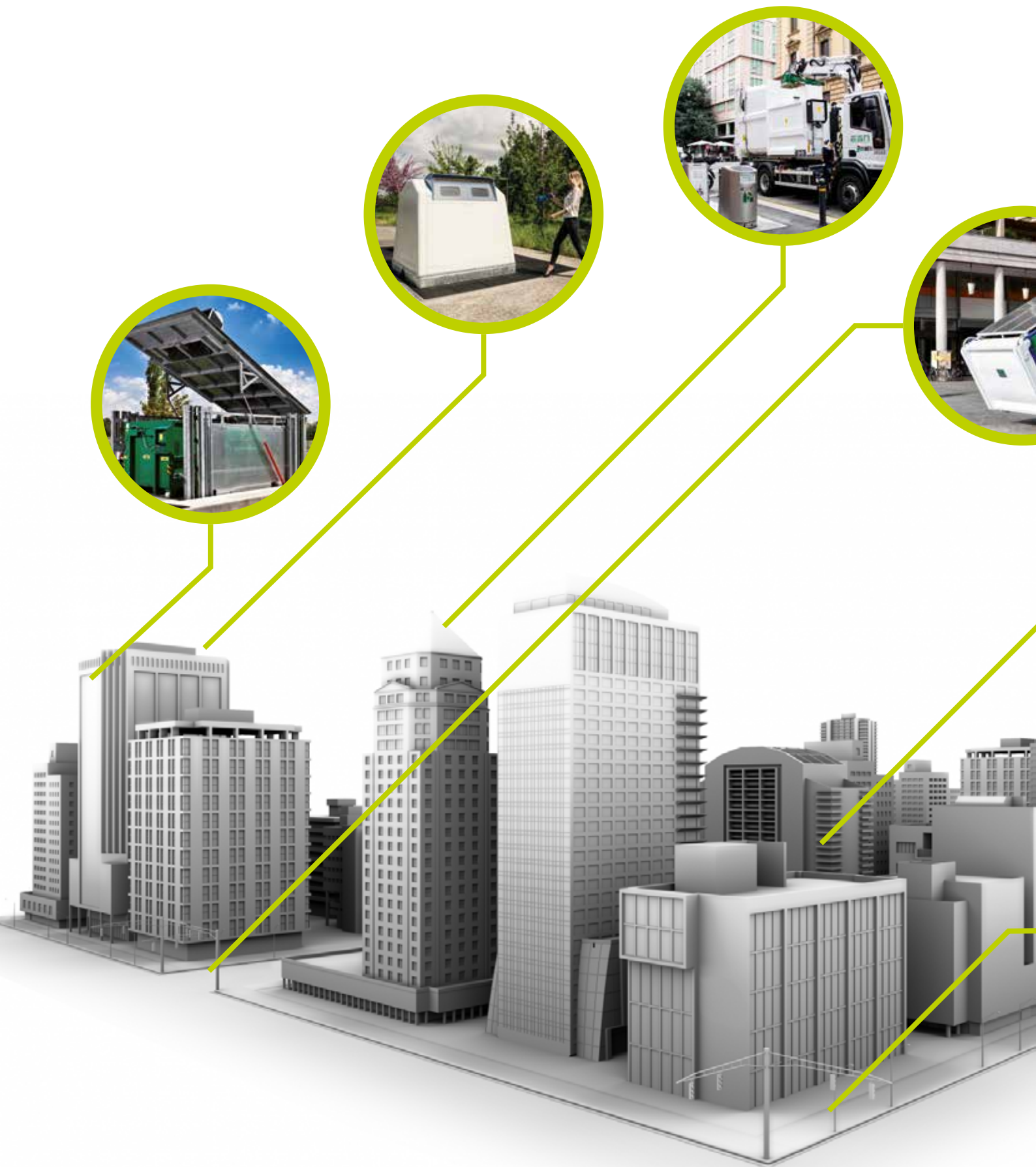
The idea underlying our philosophy is the one whereby an environmentally sound waste management is not only indispensable but also able to foster a better approach from residents who have never been so careful about environmental policies. Because of this, Ecologia Soluzione Ambiente decided not to restrict itself to offer just products, therefore providing wide-ranging solutions like consultancy, support, close scrutiny of all the workable options, and selection of the most appropriate one. The ultimate goal is to go beyond what is the mere notion of waste collection and management.

Underground and above-ground waste collection systems that guarantee safety and accessibility to all users - especially those with disabilities), noise and air emissions reduction, and the possibility to give coherence to environmental policy by improving waste transport logistics and tapping energy from renewable sources.

we are present in  
**acquistinretepa**

The Public Administration Purchases web portal allows to optimize public purchases of goods and services, rationalizing public spending and simplifying the supply and delivery purchase processes in an innovative and transparent way

Ecologia Soluzione Ambiente, in line with its philosophy technology-oriented, has developed a broad range of products ranging from traditional garbage bins and compactors to ground-breaking and innovative solar-powered systems.





## THE WASTE CONCEPT

the analysis model we developed enables the right solution for every city

The idea behind our philosophy is that a proper waste management besides being needful, is also able to promote the virtuous behavior of sensitive users, making them more attentive to the environmental policies, like never before.

For this reason Ecologia Soluzione Ambiente has chosen not to supply products only. What we offer are allround solutions, made of consulting, service, study and selection of the most appropriate waste management system. The goal is to look beyond the simple concept of waste collection and transfer.



INHABITANTS  
POPULATION DENSITY  
ACREAGE



TYPE OF COLLECTED  
WASTE



COLLECTION WAYS

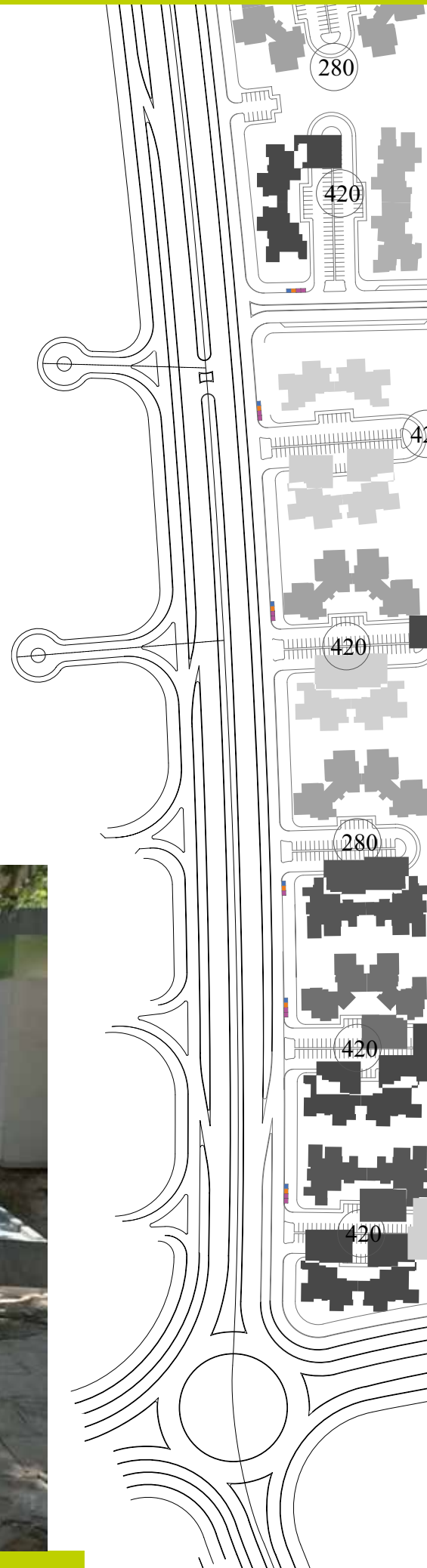
**THE WASTE SOLUTION**



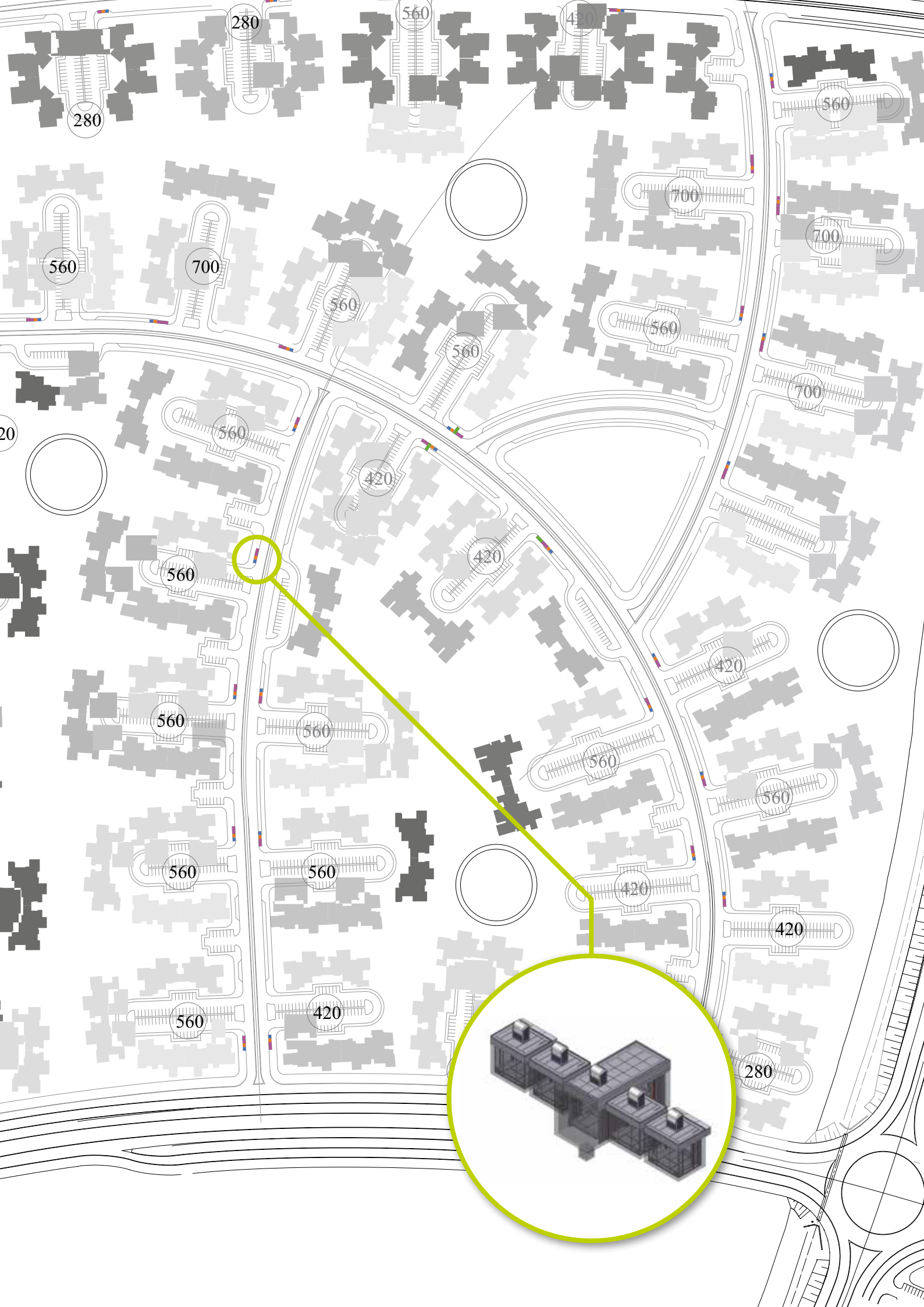
## DESIGN AND INSTALLATION

Keeping into account that each environment has its specificities, we opted for diversifying as much as we could our offer while staying true to our core beliefs about the environment protection.

That is why we provide solutions having as main goals urban regeneration, encouragement of separate collection, and economic savings.







## TECHNOLOGY

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Ecologia Soluzione Ambiente, in line with its philosophy technology-oriented, has developed a broad range of products ranging from traditional garbage bins and compactors to ground-breaking and innovative solar-powered systems.

Thanks to the great experience gained on field, ESA is today able to follow every step of the production process in a capable way, being attentive to every detail to complete the project.



## SOFTWARE AND ERP

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A complete management software specifically conceived for companies operating in the sector of waste management, that thanks to a simple and fast interface allows to line up every department for the data exchange, achieving a real time checking of all information necessary for the business process management.





## SOLUTIONS



A web conceived software solution , multiplatform, multi database, accessible everywhere with a simple connection network that allows to effectively manage all related operations to the design,reporting and collection of urban and special waste, their treatment and the urban hygiene related activities.

The product is perfectly suited to the needs of companies that require an integrated software managing both the administrative and the technical aspects, but also to companies that need to singularly manage waste collection activity, management of disposal/treatment facilities rather than the simple management of processing scraps.



## R&D

The care of the world we live in requires the right balance between theoretical knowledge, practical know-how, fieldwork, and domain expertise. All traits ESA accrued over years of hard work, research, analysis, and improvement; and that today are made available to the client in our classy headquarter located in Bibbiano, in the province of Reggio Emilia.

Our commitment to innovation takes us into the future each day. The high-tech approach typical of our systems is continuously and constantly developing owing to our own Research and Development unit, which has been using every opportunity to make not only the present but also – and above all – our future better.

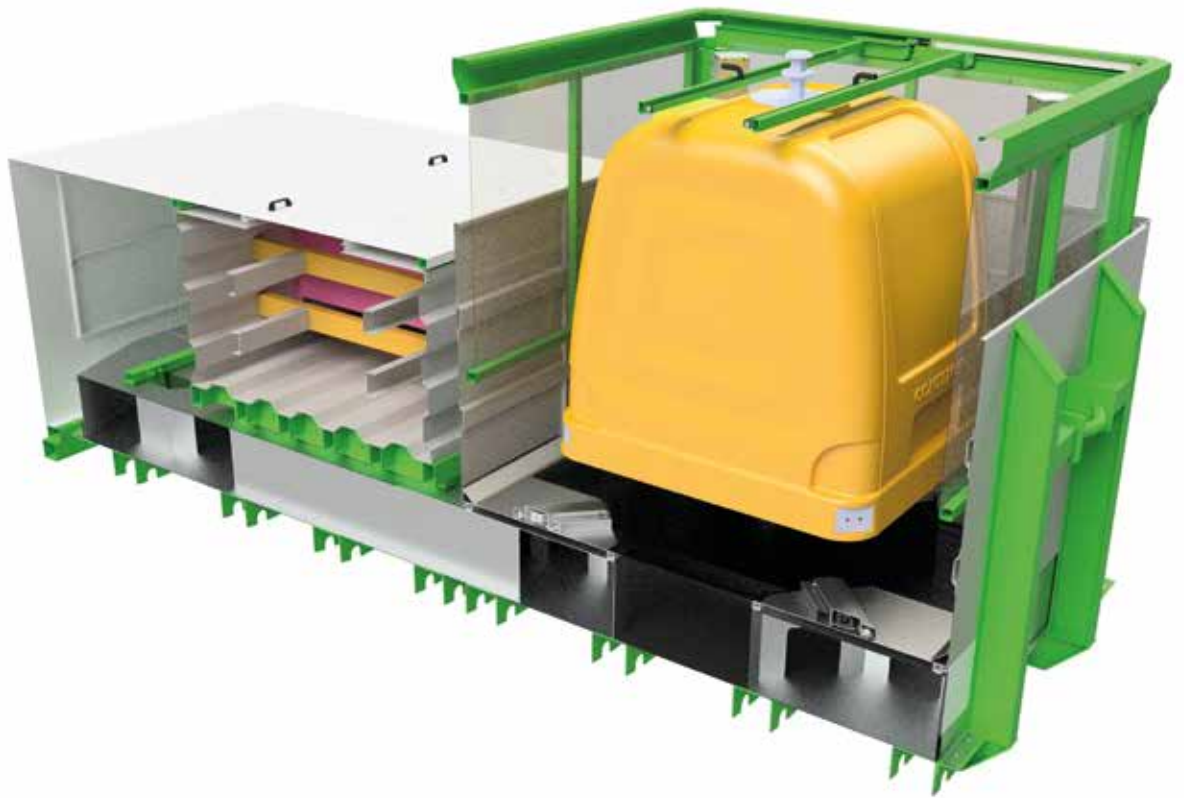
We listen and meets the needs of customers, partners, and territory, to which we cope with by offering always up-to-date products, services, and original solutions inextricably linked to what technology makes easier today. Our own high standards have always guaranteed the highest security rates and the lowest environmental impact, besides better economic outturns.

Our values show a bias for innovation, which alongside with our experience allow us to offer safer and reliable solutions having as trademarks ductility, diversity, and an optimal quality-price ratio. ESA's creed is as simply as incisive: functionality and durability first. To us, the close cooperation with our partners translates into an active participation crucial to maintaining a high level of our standardized methods and an unvarying quality in any stage.



ESA Research and Development, operates according to the new 4.0 industry guidelines, to give their customers the chance to seize opportunities related to the fourth Industrial Revolution





## UNDERGROUND SOLUTIONS

Waste underground systems were not created to be alternative to door-to-door collection or other types of service, but to integrate with them in a complementary way thanks to their strong technological vocation. The red string that accompanies them is the indissoluble bond between reliability, security and technology.

Effectiveness and efficiency are always achieved through simple technologies, proving the attention and the respect that our engineers pay during the planning phase to the needs of the operators and users who will use the installations.

Concepts that allow a correct management of the collection cycle, obtained through the exploitation of performing plants and computerized technologies that allow user identification and the evaluation of his contributions. Remote accessibility also ensures the continuity of the collection service and the constant functionality of the installations.

The very nature of the underground systems determines the ease of use characteristics, the hygiene and the safety, to improve the living standards of people using it, with particular attention to the most disadvantaged categories: disabled, seniors and children.









## ONE SERIES

The range of products in the One series is designed and built to encourage and manage a modern and versatile type of waste collection. One is designed to house a road container that can be moved through standard side-loader vehicles, even if its shape is so flexible that it allows the use of different types of containers.

One is also a milestone in the field of photovoltaic power systems: despite being designed as a single system, each system of the One line is able to combine with other similar equipments to create autonomous and self-sufficient stations up to six elements, with a single electro-hydraulic control unit.

### TECHNICAL DATA

OVERALL DIMENSION	CYCLE TIMING	POWER	EQUIVALENT BINS*
2500x2000x2360	30s raise 25s descent	3kW - 400V triphase	3,9

\*(reference to 1100l. 87% filling)



### FEATURES

- ✓ Modular system, to meet service needs
- ✓ Available with photovoltaic applications
- ✓ Flexibility of use according to containers type
- ✓ Radio-controlled opening and closing functions to speed up waste collection operations
- ✓ Side-loader collection with single-operator
- ✓ Customizable pavement

Production process certified according to the UNI EN ISO 9001 and UNI EN ISO 14001 standards





## L SERIES



The L series systems represent a valid solution to meet the need for renovation, maintaining the same existing collection service. Designed and built to stimulate and manage separate waste collection, thanks to multiple waste containers in a single location, the L series systems provide for the use of small and medium volume containers on wheels, with manual collection and emptying with traditional vehicles.

Ideal also in private properties, where the areas are difficult to access and with limited space for collection vehicles, the L series collection systems are the most advantageous, simple and traditional underground containers on the market today.

## TECHNICAL DATA

DESC.	OVERALL DIMENSIONS	CYCLE TIMING	POWER	EQUIVALENT BINS*
2L	4000x2500x2360	30s raise 30s descent	3kW - 400V triphas	4,3
3L	5000x2500x2360	30s raise 20s descent	3kW - 400V triphas	6,5
4L	6000x2500x2360	30s raise 25s descent	3kW - 400V triphas	8,7

\*( reference to 1100l. 87% filling)



## FEATURES

- ✓ System with parallel levels
- ✓ Suitable for small and medium wheeled container volumes
- ✓ Compatible with rear loading vehicles
- ✓ Plants from 3 to 6 bins
- ✓ Customizable pavement
- ✓

Production process certified according to the UNI EN ISO 9001 and UNI EN ISO 14001 standards



## K SERIES

K is a series of pull-down waste separation areas aimed at giving back spaces to the public. Thanks to extremely reduced volumes, just a single container is able to replace several standard containers, proving itself as the best solution for areas marked by a high density of population and elevated amount of waste produced.

K series systems can host roll off compactors of different size that are highly-performing and allowing to save money. The use of a press that reduces up to 5 times the original amount of collected waste makes the K series systems particularly fit for the optimization of the waste collection process. Each system belonging to the K series adapts smoothly to any kind of roll off compactors available on the market today without needing further investments.

## TECHNICAL DATA

DESC.	OVERALL DIMENSIONS	CYCLE TIMING	POWER	EQUIVALENT BINS*
K3	4000x2500x2360	30s raise 30s descent	9,5kW - 400V Triphase	13,1
K7	6000x2500x3000	30s raise 20s descent	9,5kW - 400V Triphase	30,6
K10	6000x2500x3000	48s raise 48s descent	13,5kW - 400V Triphase	43,8
K20	8000x2500x3000	1min 15s raise 1min 15s descent	17,5kW - 400V Triphase	87,6

\*(reference to 1100l. 87% filling)



## FEATURES

- ✓ Suitable for areas with high volume of waste produced
- ✓ Volume ranging from 3 to 20 m<sup>3</sup>
- ✓ Compaction ratio 1: 5
- ✓ Suitable technology to minimize the plant's peripheral areas
- ✓ Filling level detection system
- ✓ Reduced maneuvering space

Production process certified according to the UNI EN ISO standards 9001 and UNI EN ISO 14001





## K-GHOST SERIES

K-Ghost systems ensure the maximum flexibility and an easy approach. K-Ghost devices were specifically designed to tackle with the need of collecting waste straight from sweepers and other vehicles. All the containers belonging to the series are today verified, reliable and efficient products.

Having no visible holes aimed at collecting waste, K-Ghost systems can be smoothly stepped on by cars, buses and truck while perfectly integrating with the urban context. Inside the system is located a compactor aimed at reducing both the overall amount of waste collected and the number of vehicle needed for the collection.

## TECHNICAL DATA

OVERALL DIMENSIONS	CYCLE TIMING	POWER	EQUIVALENT BINS*
8000x2500x3000	1min 15s raise 1min 15s descent	17,5kW - 400V Triphase	87,6

\*(reference to 1100l. 87% filling)



## FEATURES

- ✓ Suitable for market areas
- ✓ Volume ranging from 15 to 20 m<sup>3</sup>
- ✓ Compaction ratio 1: 5
- ✓ Driveable and pedestrian treadable
- ✓ Customizable pavement type
- ✓ Reduced maneuvering space



Production process certified according to the UNI EN ISO standards 9001 and UNI EN ISO 14001



## SMARTBELL SERIES

The underground ecological islands of the SmartBell series are one of the flagships of the entire Waste range. Designed to be easy to use and with minimal visual impact, SmartBell systems allow to collect up to 3 cubic meters of glass, paper, plastic, organic and unsorted waste through a simple supply station. Placed in the subsoil, inside a prefabricated or made-on-site reinforced concrete containment tank, the SmartBell galvanized steel systems are particularly suitable for contexts such as city centers, where space is limited but the population density is high.

The emptying operation can be carried out comfortably and in total safety, using the **PELICAN** solution. The two watertight tanks, that form the lower base, can be open through the tension of suitable external metal rods, avoiding direct contact with the waste and slowing considerably the wear effect.

The SmartBell series is distinguished by the presence of a photovoltaic panel that makes it completely independent from traditional energy sources.

## TECHNICAL DATA

OVERALL DIMENSIONS	CONFIGURATION
2520x2030x2300	2 stations from 3m <sup>3</sup>



## FEATURES

- ✓ Modular and easily manageable system, to meet the service requirements
- ✓ Available with photovoltaic applications
- ✓ Flexibility of use
- ✓ Radio-controlled opening and closing to speed up waste collection operations
- ✓ Bilateral collection with single-operator

Production process certified according to the UNI EN ISO standards 9001 and UNI EN ISO 14001





## PELICAN



Thanks to its high technological level that facilitates its use and operating autonomy, the Pelican system is a unique product: a single operator system, which can operate without ever leaving the cab, through an innovative touch-screen monitor that controls the equipment in real time and signals when the time is right to perform a certain operation. It is also able to operate on both sides indifferently and proceed with the collection and transportation of underground, semi-interred and above ground systems without any restriction on the load level (if not those dictated by the context).

This has led to the creation of a system that can be installed on various types of vehicles, other than those already in use, or those intended to be converted. Pelican, a one of its kind system on the market, has been designed to easily adapt to the logistical needs of a large number of contexts and to satisfy the most varied needs, but above all to be conveniently installed on medium and large capacity vehicles, without the need to replace the coupling system. Thanks to a smart design that allows the system to always be in the best position while it is parked, the entire collection cycle is maximized without losing efficiency.

## TECHNICAL DATA

EMPTYING SPEED	LOAD DIAGRAM
180 s *	1500kg a 6,40 m



## FEATURES

- ✓ Bilateral collection with single-operator
- ✓ Flexibility of assembly
- ✓ Fully adaptable to the logistics needs of the client
- ✓ Roll-off Compactor

Production process certified according to the UNI EN ISO standards 9001 and UNI EN ISO 14001



## 2SIDE SYSTEM

The only bilateral loading system with a polyethene container.

The 2Side System® is the result of the cooperation between 2 leading companies. CONTENUR designs, manufactures and markets end-to-end container solutions for urban waste that improve quality of life and make cities more attractive and sustainable. ESA, committed to the field of environmental sustainability through activities related to urban hygiene, waste management and logistics services, deals with the preparation and the technological part of the vehicle.

2Side System® 2SS is suitable for bilateral handling (loading and unloading) of dedicated off-ground containers equipped with a mushroom type hooking system.

### TECHNICAL DATA

LITRES	OVERALL DIMENSIONS	WEIGHT (KG)	LOAD (KG)	INLET OPENING (mm)	HEIGHT (mm)
2000L	1100x1600x1600	164	800	200	1180
2800L	1450x1600x1600	197	1120	350	1180
3600L	1800x1600x1600	230	1440	900X200	1180



### FEATURES

- ✓ Resistant and light polyethylene containers
- ✓ Conferral inlets suitable for different types of waste
- ✓ 3 volume choices: 3600 l, 2800 l, 2000 l
- ✓ Tilting or flapping lid
- ✓ Customizable
- ✓ Pedal opening







## TRUCK

A flexible solution giving the possibility of installing the equipment on the most commonly used truck bodies in the market.



- A really pleasant aesthetic solution
- A solution that requires a minimal space in urban streets
- Less container height, less acoustic contamination, absence of oxidation
- The most efficient system on the market
- System with body alignment and hooking capacity even in case of slopes

## ROBOTIZED CRANE

Crane for containers hooking and lifting operations, with an automated system and control devices for the management through single-operator and a bilateral hooking system.



## TECHNICAL DATA

2SIDE SYSTEM	EMPTYING SPEED	LOAD DIAGRAM	CAPACITY
CRANE	90s	1500kg a 5,50 m	
COMPACTOR			20/22 m <sup>3</sup>

## COMPACTOR

Different capacities to meet all needs. The same chassis can be used with different compactors.



## FEATURES

- ✓ Full cycle time less than 90s
- ✓ Single-operated bilateral collection
- ✓ Fully automated collection process
- ✓ Automatic stabilization and leveling system
- ✓ 7 control cameras monitored directly in the cab
- ✓ Control software

Production process certified according to the UNI EN ISO standards 9001 and UNI EN ISO 14001





  
UNSORTED



  
ORGANIC



  
CIGARETTE  
BUNS



  
SORTED

ESA offers simple solutions able to guarantee their customers the total compliance with the local regulations and standards; like for instance creating a specifically dedicated container, to face the increasingly growing need for cigarette butts collection - regulated by the Environment MD of 15/02/17 Provisions concerning the destination of incomes from the relative administrative sanctions for the abandonment of smoking originated wastes as well as wastes of very small dimensions - art. 263, paragraph 2-bis of Legislative Decree 152/2006.

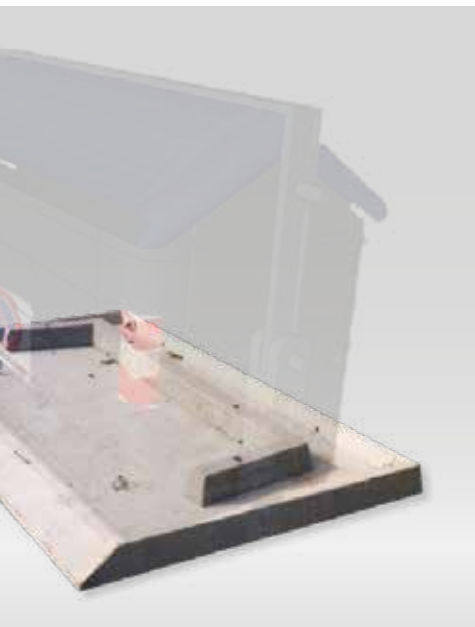


## ABOVE-GROUND CONTAINERS

The above-ground systems produced by ESA are designed to increase the Waste product range. Conceived to respond to the growing demand for environmental sustainability, they combine functionality and latest generation technology in a single product.

The container model GIUDITTA is made of steel and is available in three volumes (2250l, 3000l and 3750l). Thanks to its modular design, it adapts to the different crane coupling systems, which can be fully customized for an even more effective communication.

The container models ARIZONA ed EMY240 are particularly fit for the collection of exhausted oils and organic wastes. They are designed and built to withstand deterioration, frost, heat, chemical agents and are able to recover energy from biomass by limiting direct and indirect production of anhydride carbonate and avoid the emission of unpleasant odors. Thanks to a revolutionary photovoltaic power system, these containers are totally independent and able to be active throughout the day. The handmade ALBA bells, produced with stratified fiberglass, are certified according to the strictest security standards. They are available in two different sizes, 2200l and 3600l, customizable in color and gripping system. They guarantee the maximum watertight capacity thanks to an innovative bottom that prevents any leakage of waste generated percolate.







## STATIONARY AND MOVABLE GO-GO

The movable and stationary ecological islands model GO-GO represent a meeting point between citizens and multiutilities.

Suitable to compensate the growing amount of collected waste, GO-GO offers a remarkable advantage in terms of time and practicality, even to those citizens who usually benefit of the normal waste collection service.

The opening of the conferment inlets takes place through specific personal recognitions, which can be done by health card, social security number or magnetic card reader. The software manages the conferment to allow punctual billing by the public administration, including through the weighing of what is being entered. The security of the system is guaranteed by the surveillance web cams installed in the upper part of the structure.

## TECHNICAL DATA

GO-GO	NUMBER OF INLETS	BINS	INLETS DIMENSION
STATIONARY	Up to 5	MAX 1100l	400x400
MOVABLE	Up to 8	MAX 660l	400x400



## FEATURES

- ✓ Simplicity of use and accessibility
- ✓ 24H Conferment
- ✓ Photovoltaic power supply
- ✓ Suitable to accommodate bins of multiple volumes: From the common 120 l up to 1100 l
- ✓ Access and conferment control
- ✓ Fully customizable and integrated into the urban context

Production process certified according to the UNI EN ISO standards 9001 and UNI EN ISO 14001





## CAPS/DRAWER

The smart caps allow the computerized management of all conferment data, also on traditional bins.

The cap can be easily installed on any type of container: bins of medium and large volume, bells, underground or semi-interred containers.

The application, which includes appropriate reinforcements to the container frame and which has passed strict tests of technical compliance, can be carried out without any problem even if retrofitted in every lay-by area.

Made of stainless steel, the cap has been designed to guarantee duration of use and resistance to stresses during the bin emptying phase, as to physical, chemical and atmospheric agents.



## FEATURES

- ✓ Easy to install
- ✓ Available with photovoltaic applications
- ✓ Extremely resistant to stress, use, chemical and atmospheric agents
- ✓ Flexibility of use
- ✓ Conferment Monitoring
- ✓ Self-leveling
- ✓ Dialogue through Sim Card

Production process certified according to the UNI EN ISO standards 9001 and UNI EN ISO 14001



## COMPOST

Once the separation of the organic component process is finalized, these machines find their application both in industrial and in domestic composting. The whole composting process has one intermediate duration of a few weeks.

Kitchen leftovers (vegetable and fruit waste, bread, coffee and tea grounds, eggshells, etc.), vegetable garden waste, dried flowers, dried leaves, stems, sawdust, biodegradable materials such as paper towels, napkins, paper handkerchiefs, corrugated cardboard with food residues. Leftovers from food of animal origin are also compatible (bones of small size), pruning wood, litter, feathers and ash).

## TECHNICAL DATA

COMPOST	TON/YEAR
CIVIL COMPOSTING	from 5,5 to 21
INDUSTRIAL COMPOSTING	from 30 to 120

With the composting unit, new and refurbished bins, ESA puts the principle of the circular economy into practice on the tools for the waste collection.



## FEATURES

- ✓ From 5 to 120 ton/year
- ✓ Suitable for industrial and civil conferral
- ✓ Waste tax reduction opportunity
- ✓ Transport and disposal cost reduction
- ✓ Zero cost natural fertilizer always available

Production process certified according to the UNI EN ISO standards 9001 and UNI EN ISO 14001

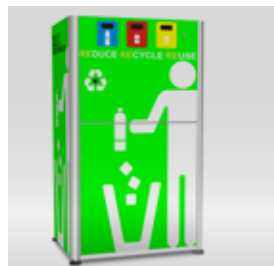


## REGENERATED BINS AND CONTAINERS

ESA proposes itself as problem-solver for all the clients that require a rescue service / regeneration of their bins fleet, worn out or damaged by weather conditions or by vandalism.

These interventions give new life to the containers, generating considerable savings both in economic and environmental terms, pursuing the European Union directives in terms of circular economy





A simple action like throwing a used plastic bottle, can change the environment in which we live. Greeny allows us to have a fair ecological behavior, and quickly get a new recycled bottle from a used one, with a considerable energy savings. All this can be done without polluting rivers or creating waste that is difficult to dispose of, like it would normally happen in traditional ways of waste disposal and landfill.







## GREENY



Stationary small solutions for the reduction of the volumes of collected waste, with incentive systems.

Thanks to the incentive practice with affiliated shops, through cards, receipts, points, tickets, the user besides feeling motivated from the moral and ethical point of view for the ecological behaviour, has a tangible and immediate income after every use of the machine.

GREENY systems can also be supplied to be used, or lent to private individuals and shops, furthermore, the external surface is completely customizable, suited to host advertising campaigns or graphics, aimed at complete integration within the context in which the system is installed.

The concept of distributed differentiation and compaction allows to drastically reduce the supply chain of the recover and reuse cycle, for all recyclable materials.

The scrapping of market products, treated with Greeny can be conferred directly to the transformation industries for their reuse with a significant savings in time and money.



## GREEN EQUIPMENT COMPACTORS



Traditional by shape, innovative by character. The Green Equipment line systems form a complete range of products and services, born from the passion and commitment that Ecologia Soluzione Ambiente demonstrates every day towards the environment and their customers.



The Green Equipment range is completed by a series of tools, products and services that, in the field of waste collection, play a fundamental role in making the activities efficient while guaranteeing continuity over time. open roof and closed case , complete crane boom systems and mini-presses, together with after-sales services, make Green Equipment the ideal solution to meet all operational and management needs of both private companies and public administrations.







Roll-off compactors, presses, containers, bin overturning devices, shredders are just some of the performing and functional equipments of the Green Equipment line, which thanks to its considerable versatility guarantees a more environmentally sustainable and less energy consuming waste management.



THE SOLUTION FOR FLEXIBILITY







## PHOTOVOLTAIC COMPACTORS



Thanks to their versatility, ESA's photovoltaic energy compactors are the best solution to face the demand for waste collection in areas related to temporary or itinerant events, such as markets, fairs and special events. The efficiency and flexibility of collection, even differentiated, make these products easy to be positioned anywhere. The energy autonomy is guaranteed by the large surface of solar panels situated on the top roof of the compactor



Our passion for research drives us daily into the future. The technological content of our systems is continuously and constantly evolving thanks to our internal Research and Development department, which allows us to realize some of the most innovative solutions on the market

The innovative technology introduced by ESA in this segment of conventional products makes photovoltaic compactors a flagship of today's product range. Dynamic and multi-functional, they are available in two versions K-tank and K-solar of 4.5, 10, 15 and 20 m<sup>3</sup>



## FEATURES

- ✓ Full energy independence thanks to the solar panels placed on the upper surface
- ✓ Suitable for areas with high volume of waste produced
- ✓ From 4.5 m<sup>3</sup> to 20 m<sup>3</sup>
- ✓ 1:5 Compacting ratio
- ✓ Filling level detection system
- ✓ Suitable for the collection of special waste ( hospital, food, RAEE, batteries, etc.. )

Production process certified according to the UNI EN ISO standards 9001 and UNI EN ISO 14001

## T-RECYCLE



Versatile and multifunctional, T-recycle allows to drastically reduce energy consumption, the total absence of emissions and the fact that it does not require registration, allow T-recycle to move freely both in traffic restricted and pedestrian only access areas.



The two-sided conferral doors allow to manage up to 3 different types of waste that may possibly be compacted into the 120l bins placed inside the vehicle.

Even the environment benefits from this, with a remarkable reduction of noise pollution and emissions into the atmosphere.

The versatility of T-recycle and a wide range of specific accessories allow the collection of general waste, dog defecation cleaning, cigarette butts pick-up, manholes cleaning, road surface restoration, wall graffiti cancellations and bins maintenance even in low mobility environments.

It is the perfect integration of waste collection into sensitive areas, integrating with a traditional and / or solar compactor with high capacity and volume for both sorted and unsorted waste.

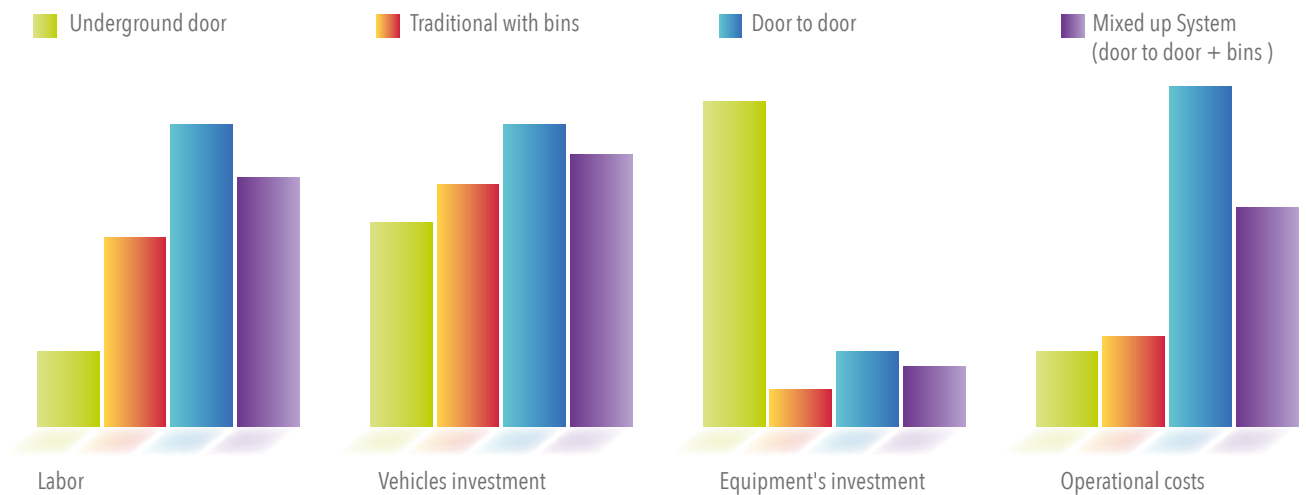
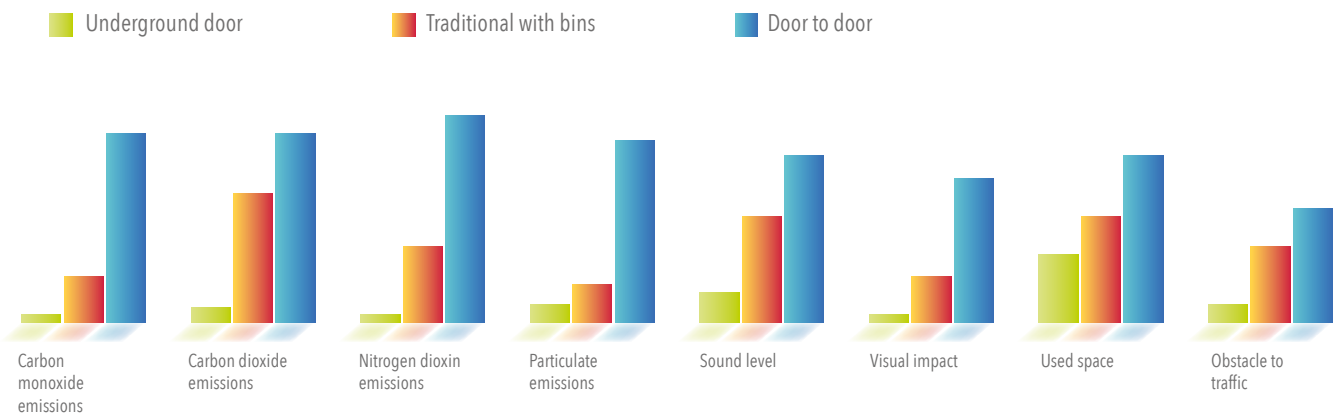










# TO THE COLLECTION OF WASTE







-  Nicer areas
-  Traffic reduction
-  Improvement of hygienic and sanitary conditions
-  Improvement of urban beauty
-  Simpler systems for the weaker categories
-  Give spaces back to the community





A significant reduction in emissions into the atmosphere, noise and visual impact. Underground systems for the respect of the environment.

## SOCIAL AND ENVIRONMENTAL ECONOMIC ADVANTAGE



Sharing a journey aimed at optimizing investments and management costs, means research, study and build appropriate solutions.

What all the underground solutions have in common is the fact that they always have a double economic and social aspect. On the one hand, underground systems aim to reducing the collection logistics related costs, through the reduction of vehicles and operators and the use of energy supplied from renewable sources at low cost.

On the other hand, they aim at making the redevelopment of central and experienced urban areas possible and reclaim new public spaces for alternative activities of the population, while facing at the same time traffic related problems and its direct and indirect costs.

Underground systems generate net savings of 21.9% compared to traditional systems



## PERSONNEL TRAINING AND AFTER-SALES MANAGEMENT SYSTEMS

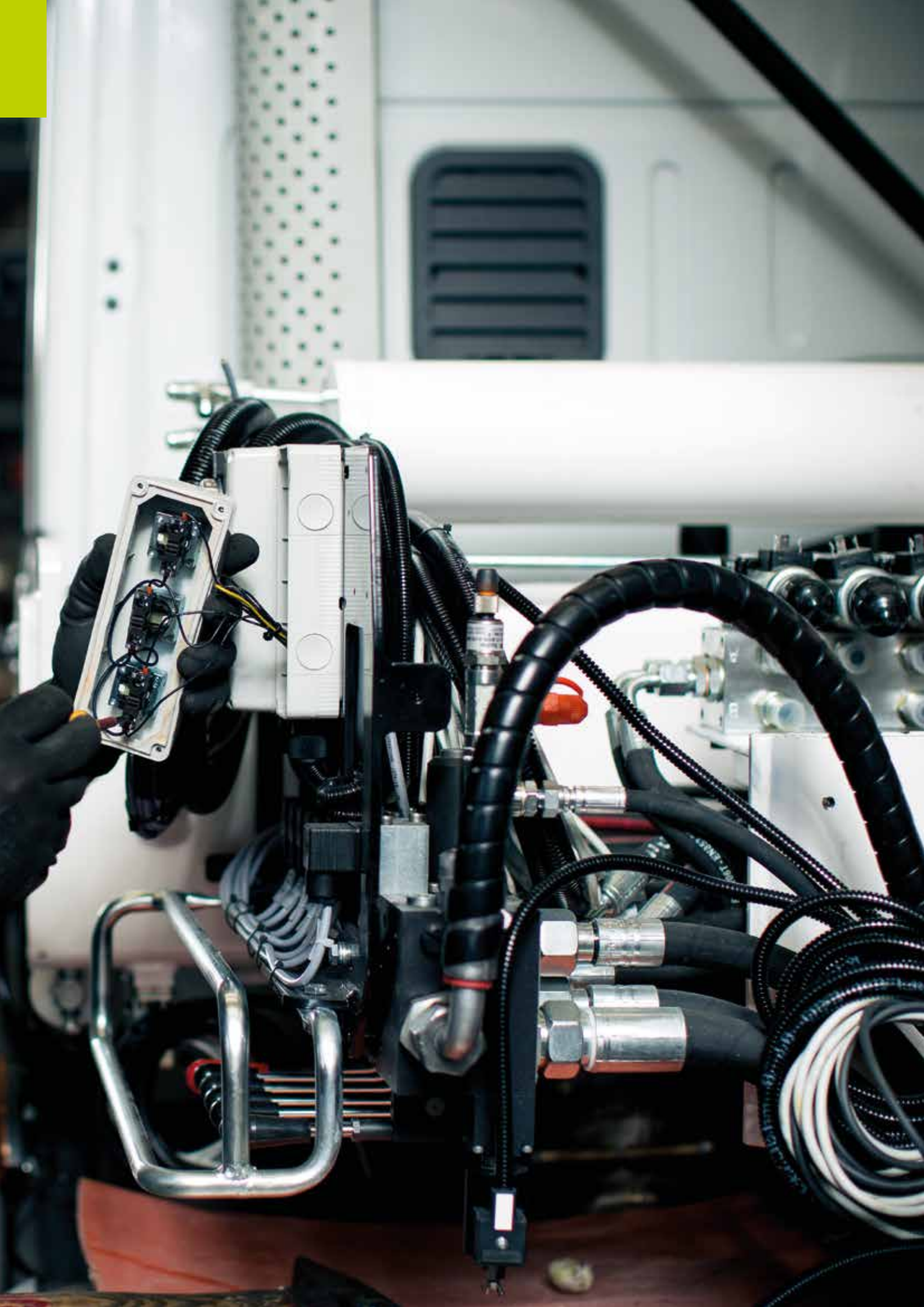
ESA's approach demonstrates a clear inclination for functionality and durability. In fact, great attention is paid to pre and post-sales management phases and to the continuous customer care. For us, the attention and monitoring of the technologies provided translates into an active participation that allows us to maintain a high degree of reliability and to operate in total conformity with the highest standards.

Waste management service cannot and must not be interrupted. It is essential that all systems are kept constantly efficient and safe over time. Just as central is the maintenance of active and passive safety conditions for citizens and operators despite of new ever changing legislation standards.

For these reasons, ESA has created a service dedicated to customer management. "Mantengo" is a specific department that is responsible for providing assistance through highly qualified and informed technicians about the technical features and risks associated with the execution of the works.

















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