(Translation from the Italian original which remains the definitive version)

Ferrovie dello Stato Italiane Group

ANNEX COMPANY HIGHLIGHTS - THE ENVIRONMENT

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Ferrovie dello Stato Italiane

OUR APPROACH

Ferrovie dello Stato Italiane intends to incorporate the protection of the environment into the Group's strategies and activities by promoting and developing sustainable mass mobility built around rail transport.

In order to pursue this objective, it considers it essential to establish, carry out and monitor objectives which require the rational use of resources, the prevention and reduction of environmental risks, research into energy efficiency, and the promotion of renewable energy sources with the aim of gradually reducing the Group's carbon footprint.

The environmental management policy and system guide the processes and actions towards continuous improvement, carefully and continuously developing natural capital by spreading awareness of environmental matters and actively supporting the monitoring of environmental impacts.

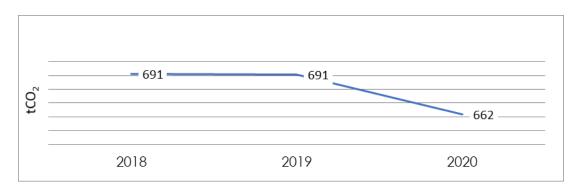
Final energy consumption

		2020	2019	2018
Electricity with guarantee of origin or self-	MWh	4,686	5,629	5, 670
produced using photovoltaic technologies	%	100%	100%	100%
Diesel	1	0	0	31,550
Natural gas	Sm^3	335,549	349,529	306,921

Comments on the trend

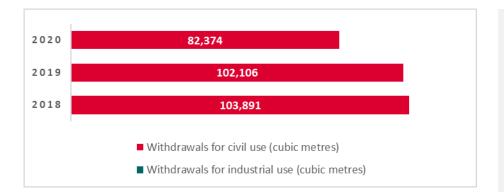
There was a significant drop in electricity consumption in offices in 2020 due to greater numbers of people working from home as a result of the public health emergency. This also led to a slight decrease in natural gas consumption for heating compared to 2019.

Total CO₂ emissions (market based)



¹ The market-based approach entails the use of emissions factors defined in the contract with the electricity supplier. If there are no specific contractual agreements, where the Group companies and the electricity supplier can negotiate them (e.g., by purchasing guarantees of origin), the emission factor for the national "residual mix" of energy sources is used.





Comments on the trend

The figures in the table mainly refer to withdrawals for the Villa Patrizi site in Rome and are substantially steady given the type of activities (administrative) carried out there.

The fall in consumption in 2020 is linked to the reduced presence of personnel in offices under the emergency remote working arrangement.

Waste



Comments on the trend

The figures in the table refer to special waste produced by the Villa Patrizi site in Rome.

The type of office activities carried out at the site is such that the production of waste is steady (IT equipment, furnishings and air conditioners). However, non-hazardous special waste increased in 2019 due to the replacement of furnishings in rooms assigned to personnel.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Induction cycle on sustainability issues for management and members of the boards of directors of direct subsidiaries.	2020	+ culture and awareness + knowledge and commitment	V	The induction programme continued in 2020 for: ✓ the boards of directors of the main Group companies.
	Cultural transformation on sustainability issues, an online course to raise awareness throughout the Group.	2020	+ culture and awareness + virtuous practices	V	The multimedia journey on sustainability for personnel was completed. It comprised four video clips, each focused specifically on one issue.
	Include greenhouse gas emissions targets in top management's remuneration policies.	2020	+commitment - CO ₂	√	
	Define a model to assess external economic, social and environmental issues to be applied to the Group's main projects.	2021	+ shared value		
	Encourage the integration of environmental and social considerations in procurement.	2020	+culture and awareness	1	The guidelines on sustainable procurement were formalised.
	Define a control model for data on sustainability performance required for Group reporting.	2021	+ control		
	Begin reporting climate data on the Carbon Disclosure Project (CDP) global platform set up to understand and manage energy and CO ₂ emissions issues	2020	+ culture and awareness	√	FS Italiane took part in CDP 2020 reporting and was rated "A-" in the leadership bracket.

Key













in progress

Continuous improvement

Raw materials cycle

Energy and emissions

Water cycle

Land

completed

Trenitalia

OUR APPROACH

Trenitalia considers the safety of railway operations, the quality of services provided, the protection of the environment, the safeguarding of the health and safety of its workers and energy efficiency as necessary and fundamental and therefore strategic elements for its reputation and business development. Trenitalia has therefore formalised its own specific operating safety, quality, environment, occupational health and safety policy that generally directs and guides the company towards achieving its mission and gaining a steady competitive edge, which uses the environmental benefits of safe railway transport as leverage to create incentives for sustainable mobility. To boost its effectiveness in this respect, Trenitalia has also adopted an integrated certified management system that conforms to the requirements of the ISO 45001, ISO 14001 and ISO 9001 standards.

As for energy efficiency, for five years Trenitalia has been pursuing a broad energy diagnosis campaign at its industrial plants to progressively improve the energy performance of its maintenance activities, which also consists of significant investments in the installation of LED lighting systems and the redevelopment of the energy supplies for compressed air and heat production and distribution systems and the production of energy from renewable sources (e.g., photovoltaic plants, solar thermal energy, etc.). Also with respect to the purchase of new rolling stock, Trenitalia is making efforts to include clauses entailing significant progress in the energy efficiency of vehicles, as in previous calls for bids for the contract for over 600 regional electric and diesel trains awarded previously. To protect water resources, the company has initiated a virtuous, long-term cycle at maintenance sites to streamline and contain water consumption.

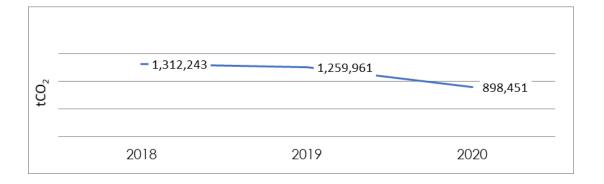
Final energy consumption

		2020	2019	2018
Electricity for railway traction	MWh	2,581,955	3,473,128	3,554,179
Electricity for other uses	MWh	73,673	77,558	78,624
with guarantee of origin or self-produced using photovoltaic technologies		100%	100%	100%
Self-produced and consumed solar energy	MWh	2,322	220	62
Diesel	1	38,483,358	48,531,837	49,264,725
Natural gas	Sm^3	15,300,319	15,935,245	19,549,254

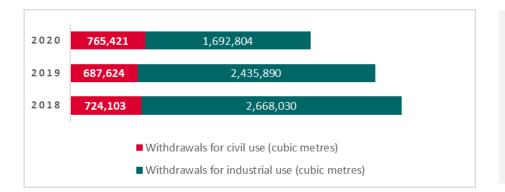
Comments on the trend

Energy consumption decreased in 2020, for both electricity and natural gas and diesel, due to the unexpected reduction of production activities as a result of the public health emergency. In addition, there was a considerable increase in energy generated by photovoltaic plants as new plants were installed or upgraded at company offices during the year.

Total CO₂ emissions (market based)



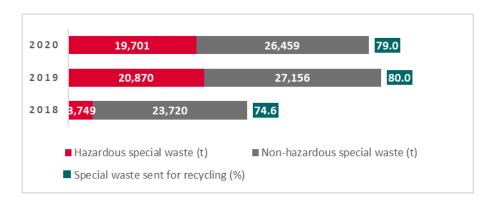
Water



Comments on the trend

Following on from the previous three years, water consumption continued to decrease thanks to the rationalisation of water networks and adoption of management, infrastructure and technological solutions to optimise the water cycle. A portion of the reduction is linked to physiological changes related to the type and volume of production activities carried out during the pandemic.

Waste



Comments on the trend

Overall waste produced was 4% lower than the previous year. Maintenance, sanitisation, cleaning and tidying activities were upgraded during the year.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Installation of new lighting systems on the fleet of Vivalto NCDP trains (i.e., those featuring the new double-decker carriages), TAF (trains operating the busiest routes) and the medium-haul carriages that have received face-lifts.	In progress	+ comfort - CO ₂	(7)	Installation on the Vivalto NCDP fleet began at the end of 2017 and will cover 257 carriages (progress: 254 out of 257 carriages). Installation began on the medium-haul facelifted carriages in 2019 and will cover 1,210 of them (progress: 419 out of 1,210) while modifications on the TAF fleet will cover 74 carriages (progress: 67 out of 74).
	The new Pop and Rock trains for regional service were purchased and rolled out.	In progress	+ comfort - CO ₂	(7)	The new Pop and Rock trains have updated the rolling stock used for the regional service in Italy to the next generation, boasting more comfort , technological innovation and sustainability . Indeed, these trains consume less energy , offer integrated mobility features (e.g., space on board for bicycles and charging stations) and are made out of up to 96% recyclable materials . A further 100 trains were delivered in 2019 and 2020.
	Purchase of new regional diesel/electric Blues trains designed for commuters.	In progress	+ comfort - CO ₂	(7)	The new Blues trains are last-generation diesel-electric-battery hybrid trains . They may run on diesel - when operating on diesel railway lines - or electricity when using pantographs on electric lines. Equipped with batteries, they can travel a few kilometres on diesel lines - for instance when entering and leaving stations - electrically to reduce pollutant emissions in cities.
	Installation and roll-out of new photovoltaic plants .	In progress	11,675 MWh 3,694 tCO ₂		In 2020, new photovoltaic plants were rolled out at the HS Rome current maintenance plant, the Napoli Centrale current maintenance plant and the S.M. La Bruna ordinary maintenance workshop and two new sections were added to

Scope	Description	Deadline	Average annual savings/target	Status	Notes
					the pre-existing plant at the HS Milan current maintenance plant. In 2021, photovoltaic plants will be rolled out at the HS Naples current maintenance plant and further upgraded at the HS Milan current maintenance plant (with the roll-out of the fourth and last section).
	Installation of new solar thermal plants at 11 maintenance plants.	2022	84 tep 67 tCO ₂		
	LED lighting at 14 maintenance plants.	2023	5,850 MWh 1,850 tCO ₂		
	LED lighting and building automation systems in the HS Milan current maintenance plant of Long-haul Passenger Division (LHPD) and the Milan current maintenance plant.	2020	1,000 MWh 320 tCO ₂	V	
	Installation of radiant strip heating systems at the LHPD Milan hub (at MAV 1 and MAV 2 of the HS Milano FR current maintenance plant and the Milano SU current maintenance plant and at the Milano Greco current maintenance plant) and four additional plants.	2023	928 tep 760 tCO ₂		
	Rationalisation of water networks for industrial plants and adoption of management, infrastructure and technological solutions to optimise water use.	2024	0.43 litres of water/train-km 1.41 litres of water/hours worked		Work completed at the Verona ordinary maintenance workshop and the Naples ordinary maintenance workshop in 2020.
	Rationalisation of the collection of waste from industrial production and awareness raising for personnel and third-party firms on environmental management.	2024	+1.2% waste sent for recycling		
NEW .	Biosafety Trust Certification (management system certification aimed at the prevention of the spread of infections) obtained	2020	+ culture, awareness, knowledge and commitment	V	

Key













Continuous improvement

Raw materials cycle

Energy and emissions

Water cycle

Land

completed

Trenitalia's subsidiaries

Netinera Group

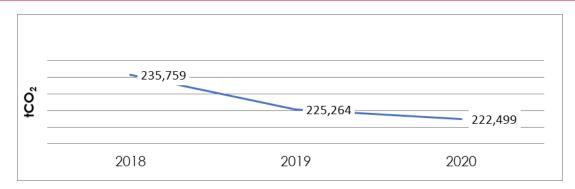
Final energy consumption

		2020	2019	2018
Electricity for railway traction	MWh	173,089	162,797	162,814
Electricity for other uses	MWh	6,459	7,676	10,207
with guarantee of origin or self-produced using photovoltaic technologies	%	0%	0%	0%
Diesel	1	34,137,692	36,861,310	40,299,768
Natural gas	Sm^3	599,286	991,439	1,126,596

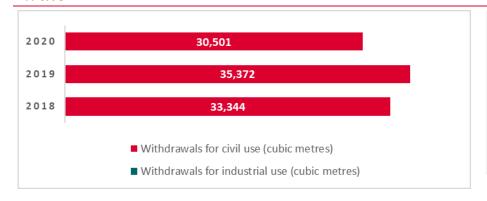
Comments on the trend

The consumption of electricity for railway traction increased in 2020 due to roll-out of Vlexx's new E-Netze Saar line. The consumption of natural gas and electricity for other uses decreased as a result of employees working from home during the public health emergency and also due to a milder winter compared to the previous year.

Total CO₂ emissions (market based)



Water



Comments on the trend

The data show a substantially steady trend. The slight drop in water consumption in 2020 is attributable to reduced operations during the public health emergency.

Waste



Comments on the trend

The rise in waste production in 2020 compared to previous years is mainly due to works by the company OHE to replace railway sleepers.

Scope	Description	Deadline	Average annual savings/target	Status Notes
	The Elektro-Netz Saar project for the electrification of railway transport in the Saarland region, gradually replacing diesel trains with electric and electric battery trains starting from 2024.	In progress	- CO ₂	

Key













Continuous improvement

Raw materials cycle

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completed

Trenitalia's subsidiaries

TrainOSE

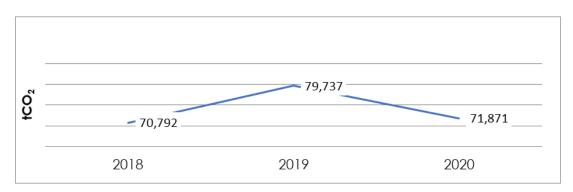
Final energy consumption

		2020	2019	2018
Electricity for railway traction	MWh	66,347	67,992	48,325
Electricity for other uses	MWh	5,441	5,341	50
with guarantee of origin or self-produced using photovoltaic technologies	%	0%	0%	0%
Diesel	1	9,127,979	12,700,094	15,915,362

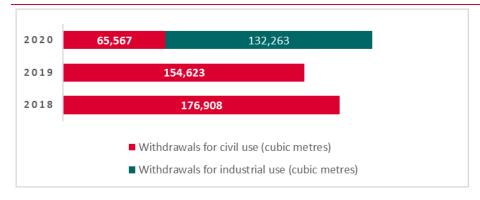
Comments on the trend

Diesel consumption decreased in 2020 mainly as a result of reduced services during the public health emergency. In addition, the main line in the Athens-Thessaloniki region was electrified in May 2019, thus reducing diesel consumption and increasing electricity consumption in 2020. However, the latter increase was fully offset by the reduction of electric transport services during the public health emergency. Electricity consumption for railway traction only dropped by approximately 2% and did not experience the same level of reduction seen as diesel consumption.

Total CO₂ emissions (market based)



Water



Comments on the trend

The company adopted a new method for monitoring water resources in 2020, successfully separating consumption for civil use from consumption for industrial use.

Waste



Comments on the trend

The fall in waste production in 2020 is mainly due to reduced production activities as a result of the public health emergency.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
NEW •	A procedure was formalised to better manage industrial waste at plants and mitigate the risk of polluting the environment.	2020	+ culture	1	
NEW •	Digitalisation of paper tickets: e-tickets associated with new products and awards for passengers (e.g., 10% discount for e-tickets on mobile phones).	2023	paperdigitalisation		
The state of the s	ISO 50001 certification was obtained (energy management system) and the ISO 14001 environmental management system was implemented.	2022	+ culture	(7)	
NEW •	SHIFT2RAIL DAYDREAMS: optimised maintenance of the railway infrastructure via AI.	2023	+ efficiency	(7)	Project financed by the European Union.
NEW O	Upgrade and renovation of the Thessaloniki depot to hold ETR 470 trains.	2021	+ efficiency		
NEW .	HORIZON2020 5G VICTORI project: increasing self-generated energy from braking by electric railway systems by coordinating rolling stock and HS substations.	2023	+ efficiency		Project financed by the European Union.















Continuous improvement

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Trenitalia's subsidiaries

Trenitalia C2C

Final energy consumption

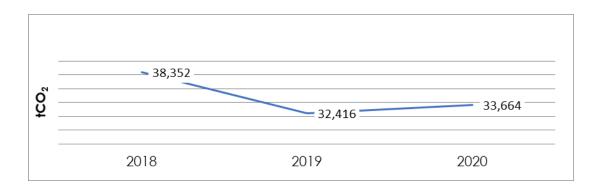
		2020	2019	2018
Electricity for railway traction	MWh	80,824	80,401	90,313
Electricity for other uses	MWh	6,949	7,323	7,099
with guarantee of origin or self-	%	2%	0%	0%
produced using photovoltaic				
technologies				
Self-produced and consumed solar energy	MWh	141	0	0
Natural gas	1	161,236	132,956	156,559

Comments on the trend

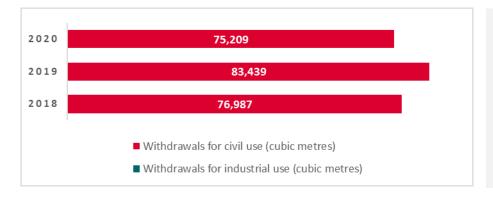
Electricity consumption for traction remained basically unchanged. There was a reduction in 2019 on 2018, however, partly due to the roll-out of systems to self-generate energy from braking, which were installed on the fleet. The heating systems in certain buildings were converted from gas to electric.

Natural gas consumption increased in 2020 to heat the East Ham depot.

Total CO₂ emissions (market based)



Water



Comments on the trend

The roughly 10% decrease in water consumption in 2020 is attributable to the COVID-19 emergency along with the project to modernise the water pipes at the Shoeburyness depot.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Upgrading of air conditioning systems on trains.	In progress	- CO ₂ + delivered service quality		
NEW •	LED project at the East Ham depot.	2022	440 MWh 122 tCO2 ₂		
	Upgrading the lighting system at the East Ham depot begun in September 2020 to reduce consumption during less busy times, estimated to save 40Wh per day.	2020	- CO ₂	√	

Key













Continuous improvement

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Land



RFI

OUR APPROACH

RFI's approach to operating national railway infrastructure focuses on boosting the network's value as a fundamental asset of Italy's mobility system and as a key part of improving the local society, economy and environment.

A focus on environmental and social protection and regeneration in the areas where it operates lies at the foundation of RFI's mission and is a common thread throughout all its production activities. To RFI, sustainability is not merely a criterion for the definition of specific initiatives, but is also a systemic approach to all business aspects, to creating shared value and contributing to the achievement of sustainable development goals, also by designing and applying process and product innovation aimed at green and digital transition.

Operating the railway network efficiently, safely and accessibly means, in and of itself, contributing to a more sustainable transport system where trains, together with other means of collective transport, can attract growing percentages of private transport, reducing detrimental effects on the population in terms of emissions, consumption of natural resources, accidents and traffic, and meeting passenger and freight transport needs more effectively. The company is making this goal more attainable through planned actions to drive the network's integration with other modes of transport, to make it more attractive to railway companies, intermodal operators and passengers, especially commuters, and to improve its performance for them.

This means that, on the field and every day, RFI manages, maintains, strengthens, designs and builds lines and stations with an utmost focus on safety, impact mitigation, the rational use of resources and infrastructure control and resilience. It also means that RFI has embraced an increasingly extensive and global vision and a growing commitment to protecting, regenerating and developing the land and its assets, with the involvement of the entire organisation, the subsidiaries, suppliers and other stakeholders, in collaboration with institutions. RFI also relies on its integrated safety management system which comprises the environmental management system, occupational health and safety management system and safe train travel and railway operation management system.

Creating shared value also entails developing assets no longer used in railway operations, such as granting spaces in the station on free loan for non-profit activities or using retired lines as recreational paths and greenways.

Final energy consumption

		2020	2019	2018*
Electricity** with guarantee of origin or self-	MWh	453,862	476,220	473,609
produced using photovoltaic technologies	%	20%	11%	0%
Transmission of electricity for				
railway traction (network dissipation)***	MWh	385,138	460,530	458,108
Diesel	1	16,602,986	18,392,402	16,910,230
Natural gas	Sm^3	8,397,512	9,283,706	10,360,379

Comments on the trend

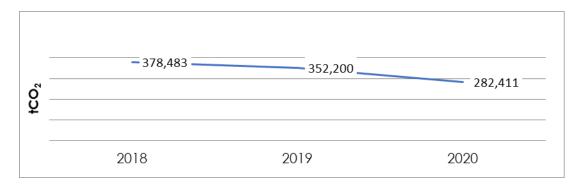
Electricity consumption for internal use dropped roughly 4% over the three years from 2018 to 2020 mainly due to the approximate 5% reduction in 2020 compared to 2019. This was largely a result of the shutdown of production at industrial workshops in the early months of the public health emergency and the lesser need for electricity at offices due to more employees working from home. Consumption of electricity from renewable sources rose in 2020 thanks to the supply of the entire share of electricity with guarantee of origin purchased by RFI under a specific supply contract (roughly 90 GWh, 20% of total electricity consumed for internal use). The remaining 80% of electricity is procured from the Italian Power Exchange (GME) under a contract with GSE and converted to renewable sources as part of a wider revision of the relevant legislation and regulations.

Diesel consumption remained at the same level over the 2018-2020 period though as a balance of two opposing trends. There was an approximate 9% increase from 2018 to 2019 due to the rise in railway ferrying and a roughly 10% decrease from 2019 to 2020 caused by various factors including: decreased consumption for railway ferrying (-21%) due to the combined effect of lower maritime traffic during the public health emergency and the use of a more efficient ship; decreased diesel consumption for shunting (-37%) due to the gradual outsourcing of such activity; decreased diesel consumption for heating (-14%) as a result of the gradual replacement of diesel power plants with more environmentally-friendly plants along with the reduced use of work spaces and stations during the public health emergency.

Finally, natural gas consumption decreased by approximately 19% from 2018 to 2020. Specifically, consumption for heating dropped roughly 10% from 2019 to 2020 as a result of the reduced use of offices and station areas during the public health emergency.

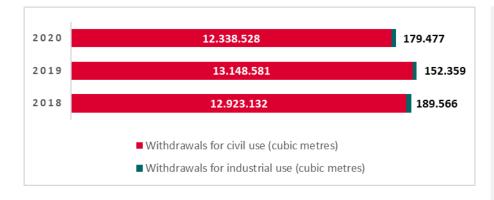
- * Energy and emissions data include the consumption of Centostazioni S.p.A. which merged into RFI as per the merger deed dated 16 July 2018.
- ** Excluding high voltage electricity absorbed by the railway companies' trains operating on the network operated by RFI.
- *** This is energy that dissipates along the railway transport electricity grid used to power trains travelling on tracks operated by RFI. The value is estimated following the instructions of the International Union of Railways (UIC), indicated in UIC 2008 fiche 330 "Railway specific environmental performance indicators".

Total CO₂ emissions* (market based)



^{*} CO2 emissions also include those related to the transmission of electricity for railway traction on the RFI network (catenary and substations), amounting to around 40%.

Water



Comments on the trend

Overall water consumption decreased approximately 5% over the 2018-2020 three-year period, mainly due to changes in withdrawals for civil use.

Specifically, there was a roughly 3% increase from 2018 to 2019 in correlation with the physiological changes related to the type and volume of production activities. This was followed by an approximate 6% decrease from 2019 to 2020 as a result of lower numbers of people in offices and stations during the public health emergency along with works to optimise water systems (closure of some wells and repair of water leaks in some areas).

Waste



Comments on the trend

Overall waste production increased over the 2018-2020 three-year period (by approximately 22%) mainly due to the growth in railway infrastructure maintenance from 2018 to 2019.

Waste production levels remained essentially unchanged from 2019 to 2020, both overall (+1%) and in the breakdown of non-hazardous waste (87%) and hazardous waste (13%). Non-hazardous waste rose 3% in 2020 - particularly iron and steel waste produced in upgrading railway infrastructure - and hazardous waste dropped 10% - mainly as the lines undergoing maintenance feature less wood sleepers treated with creosote oil, which have been gradually replaced with more eco-friendly CAP sleepers. The portion of waste sent for recycling remained unchanged in 2020 (99%).

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Solar-powered workshops: roll-out, through a PPP (public/private partnership), of photovoltaic plants to self-produce and self-consume electricity at the national workshops in Bologna, Bari and Pontassieve.	2022	5,000 MWh 1,607 tCO ₂		The design activities for the selection of the contractor are complete and PPP negotiations are being prepared.
	LED Network of 600 stations : replacement of fluorescent lighting systems with LED systems and installation of remote-controlled/remote-managed systems for integration in the new "Smart Equipment Management" (SEM) platform at the 600 stations being upgraded under the Easy Station and Smart Station projects.	2027	8,072 MWh 2,594 tCO ₂		The stations are currently being equipped.
	Replacement of fluorescent light bulbs with LED in about 1,200 stations not included in the "Network of 600 Stations" (including yards) and offices (work areas and equipment rooms) and the installation of remote-control and remote-management systems.	2022	30,000 MWh 9,640 tCO ₂		The stations are currently being equipped.
	Recovery of energy from train braking: construction of two prototypes to use and transform kinetic energy from train braking into electricity in order to define technical and operation standards for the large-scale use of the railway system as a whole.	2024	200 MWh 60 tCO ₂		The two prototypes are being constructed.
	E-car fleet: start of the conversion of some of the petrol/diesel-fuelled company car fleet with electric cars. The project is focused on replacing approximately 100 cars used by management under long-term leases, especially at Local Production Units.	2023	50 tCO ₂		Petrol/diesel-fuelled cars are currently being replaced by electric cars.
NEW •	Green Station: applying LEED and other protocols/standards for the energy efficiency and environmental sustainability of railway stations; extending works to boost energy efficiency to buildings and other plants at non-passenger areas.	ongoing	+ efficiency		Pre-assessment carried out according to LEED protocol for the Frosinone station project.
NEW •	Hydrogen mobility study: carrying out a study on hydrogen railway transport and relevant production infrastructure called "Technical and financial feasibility study: earthing systems for hybrid electric trains powered by hydrogen cells and batteries" in partnership with La Sapienza University in Rome and the Italian national maintenance committee (CNIM).	2020	- CO ₂	V	
	Electrocution prevention device: development and adoption of a device to detect the voltage of electrostatic fields up to 3,000 V as a voltage detector to reduce the risk of electrocution, to be included in the operators' safety equipment.	2024	+ safety	(7)	Call for tender published for engineering the system and supplying the first 600 devices. The bids are currently being assessed.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Integrated automatic work site protection system (SIPAC): implementation of a system to protect workers near operating double-track lines at stations and along the lines. SIPAC is another step forward in what began as the ATWS (Automatic Track Warning System), before evolving into the ITWS (Integrated Track Warning System). Like the latter, SIPAC is based on the fact that the railway signalling system already manages all the information and actions necessary to protect the work site area. Indeed, the signalling system shows and tracks all the routes where individual trains are travelling and their position (on the track circuits) in addition to controlling traffic with signals.	2023	+ safety	(7)	Negotiations are under way for the required reprogramming of the test computerised central unit.
	Dynamic train stop to protect work sites: implementation of a system enabling maintenance workers operating on single-track lines to request trains stop using their tablet and receive the traffic control operator's confirmation in real time. The work site protection will use SIL 4 security technologies. Overcoming the need to use paper modules (M40) or telephone protocols, the system helps reduce human error.	2023	+ safety	(7)	A technical party has been chosen for developing the system and implementing it on the test sections.
NEW •	Technical Academy: boosting the efficiency and effectiveness of the technical training system by: - building/revamping three training centres (Milan, Bologna, Naples); - reformulating technical training programmes and processes and defining the full-time instructor role; - digitalising teaching methods (acquiring software platforms and digital tools) and training content (creating e-courses, practical exercises with digital tools, etc.) and implementing virtual and physical simulators (training test grounds).	2025	+ culture	7	The building/revamping of three training centres (Milan, Bologna, Naples) is under way.
NEW	Envision protocol - stations (as part of the Green Station project): applying the Envision protocol for the design of sustainable infrastructure to station projects and training internal qualified personnel.	2030	+ culture		A methodology and solutions to meet the parameters set for railway stations have been finalised. The pre- assessment of some hubs has been completed.
	Reuse of washing platform water and testing of three water treatment plants (national industrial workshop in Carini, national work vehicle workshop in Catanzaro and local production unit in Milan - Milano Parco Centrale): this pilot programme consists of implementing waste water recovery and treatment systems in the washing platforms for RFI's work vehicles to reuse the water for vehicle washing.	2023	13,300 m ³ of water	()	The design of plants at the Carini and Catanzaro workshops is being fine-tuned and design began on the Milan local production unit.
	Water - wells/sources management: optimisation of water management throughout the country through the centralised processing of analyses on the disposal or transferability of current wells and sources, to be subsequently implemented by the local production units.	2027	- water consumption	(7)	The gradual delivery of the designs to the relevant local production units, which are in charge of carrying out the works.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	RESTART (Renewable Energy to Support Advanced Railway Technologies): projects for energy redevelopment, energy savings and the promotion of renewable sources of energy for RFI's technological assets, with the use of low enthalpy geothermal source.	2022	+ clean energy		Preparation for the roll-out of the first project phase by testing low enthalpy geothermal systems at two pilot sites.
	SANF-RFI: national alert system to predict possible landslides caused by rainfall along RFI's railway infrastructure. The system is based on a comparison of precipitation measurement and estimates and empirical pluviometric thresholds.	2021	+ safety		Implementation of the system and the test version is being validated.
	RAMSES : development of the pilot RAMSES (RAilway Meteorological SEcurity System) based on multi-sensory analyses to predict and geo-localise intense precipitation events in small areas that could involve the railway infrastructure, with the ultimate aim of improving predictions of critical weather/climate situations.	2021	+ safety		Validation of the results of the new functions developed on the first release of the system.
	BLESS+ (Bed LEvel Seeking System): the BLESS+ monitoring device for bridges with bed pilings was rolled out on various water crossings to monitor the level of the bed when water levels rise and to anticipate the scouring of pilings.	2022	+ safety		Negotiations began to engineer the device and put it into use on the various crossings.
NEW	RAMPS: design and construction of a prototype wheelchair ramp for the disabled in order to produce an RFI standard.	2020	+ safety	V	
	Reuse of foundry sand for the superstructure: the National Foundry Superstructure Workshop in Bari, which specialises in the production of manganese steel "frogs" (the foundation for railway exchanges), created an automated system to expand the regeneration of foundry sand used to prepare moulds, reducing the amount of sand disposed of in order to reuse it in the production cycle, improving health and safety conditions for operators at the same time.	2023	550 t of foundry sand + safety		The design is complete.
	Ecological ballast: testing of Ecoballast® (a sub-product derived from the slag resulting from the blast foundry of steel and carbon) to use as stone chippings for railway ballast.	2021	■ raw materials and CO ₂		On-site testing is under way at the test site set up on a section of the Portogruaro - Treviso line.















Continuous improvement

Raw materials cycle

Energy and emissions

Water cycle

Land

completed

RFI's subsidiaries

Grandi Stazioni Rail

Final energy consumption

		2020	2019	2018
Electricity*	MWh	54,755	64,671	61,139
with guarantee of origin or self-produced using photovoltaic technologies	%	28%	3%	30%
Diesel*	1	190,469	212,326	107,068
Natural gas*	Sm3	4,044,491	4,613,326	4,152,442

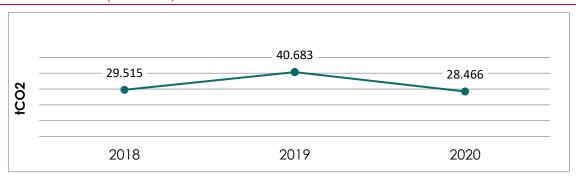
Comments on the trend

Electricity consumption for internal use decreased over the 2018-2020 period (by roughly 10%) as the net effect of two opposing trends. The roughly 6% increase from 2018 to 2019 was followed by an approximate 15% drop from 2019 to 2020 due to the lower consumption of energy in offices and stations during the public health emergency. The breakdown of energy sources changed in 2020 following the roll-out of a new supply contract with Enel Energy on 1 August 2020 for energy from 100% renewable sources certified with guarantees of origin. The previous contract for purchasing energy on the market comprising a portion of renewable energy ended on 31 January 2019. Accordingly, the percentage of electricity from certified renewable sources dropped from 2018 to 2019.

Diesel consumption for internal use was highest in 2019 following a substantial increase (by approximately 98%) compared to 2018 following the conversion of the thermal power plant at the Genova Piazza Principe station from fuel oil to diesel. This then fell approximately 10% in 2020 due to reduced diesel consumption for heating offices during the public health emergency.

Trends in natural gas consumption for internal use were similar. Consumption was highest in 2019 following an approximate 11% increase on 2018 due to the roll-out of the service platform for Roma Termini station passengers in the second half of 2018 and then decreased approximately 12% in 2020 due to reduced consumption for heating offices and stations during the public health emergency.

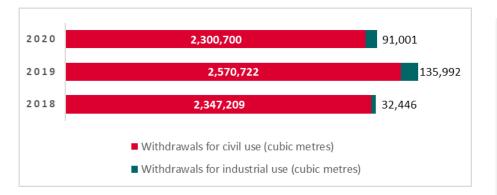
Total CO₂ emissions (market based)



The figures refer to the environmental aspects managed directly or on behalf of the company or the Group companies. They exclude consumption by station customers.

^{*} Excluding consumption attributable to company customers.

Water



Comments on the trend

Over the three-year period, trends in water consumption peaked in 2019 with an approximate 14% increase on 2018. This was mainly due to a leak that was found and promptly fixed in the plumbing at Napoli Centrale station. Consumption dropped by roughly 12% in 2020 as a result of lower numbers of people in offices and stations during the public health emergency.

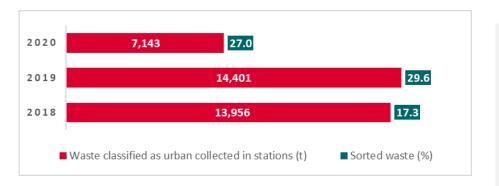
Special waste



Comments on the trend

Quantities of waste produced decreased by roughly 63% over the three-year period, dropping 26% in 2019 and 50% in 2020 mainly because of the smaller amount of sludge produced by the septic tank treatment and discharge systems as a result of lower numbers of people in offices and stations during the public health emergency.

Waste classified as urban waste at stations



Comments on the trend

Quantities of waste classified as urban waste at stations remained largely unchanged from 2018 to 2019 but then dropped considerably (by approximately 50%) in 2020 due to lower numbers of people at stations during the public health emergency. The percentage of sorted waste remained more or less unchanged from 2019 to 2020 following an increase on 2018.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Rationalisation of the thermal plant at Milano Centrale: retirement/downsizing of the current thermal power plant and the steam distribution system, which will be replaced with a high-efficiency heat pump system.	2021	500 tep 1,300 tCO ₂	(7)	Work is slated to begin in the second quarter of 2021 and end by the end of the year.
	Feasibility study for the construction of a photovoltaic farm above the new car park at the Roma Termini station.	2022	1,300 MWh 400 tCO ₂		The study is scheduled to begin in the first quarter of 2021.
	Conversion of the thermal power plant serving the Genova Principe station from diesel to natural gas.	2022	50 tep 300 tCO ₂		
	Energy upgrade and rationalisation of the thermal power plant and refrigeration units at the Torino Porta Nuova station.	2020	70 tep 160 tCO ₂	1	
NEM •	Signing a contract for purchasing guarantee of origin certificates to certify 100% of energy consumed.	2020	22,000 tCO ₂	1	
	Maintain ISO 14001:2015 certification and extend it to all network stations	2021	+ prevention and control		Certification extended to Bologna Centrale, Genova P.Principe and Genova Brignole stations in 2020 and will be extended to Firenze S.M.N., Bari Centrale and Palermo Centrale in 2021.
NEW .	Reducing plastic waste at the company headquarters by installing water fountains and giving employees water bottles.	2020	900 kg of waste	V	

Key













Continuous improvement

Raw materials cycle

Energy and emissions

Water cycle

Land

completed

RFI's subsidiaries

Terminali Italia

Final energy consumption

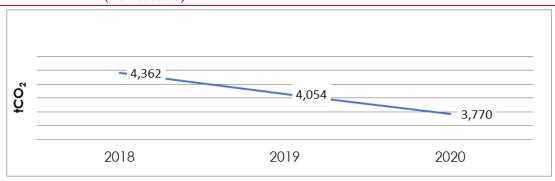
		2020	2019	2018
Electricity	MWh	2,123	2,242	2,371
with guarantee of origin or self-produced using photovoltaic technologies	0/0	85%	84%	66%
Diesel	1	1,346,266	1,458,460	1,498,000

Comments on the trend

There was a slight decrease in the consumption of electricity for internal use over the three-year period, while the percentage of energy from certified renewable sources remained constant between 2019 and 2020 thanks to the extension of the contract with CVA Trading in 2019 which had led to an 18 percentage point increase on 2018.

Diesel consumption decreased approximately 10% over the three-year period, down roughly 3% from 2018 to 2019 due to the upgrade of the shunting engine fleet, with the new vehicles rolled out in mid-2018, and down approximately 8% from 2019 to 2020 due to lower production during the public health emergency from March to May.

Total CO₂ emissions (market based)



Water



Comments on the trend

The company's water consumption, relating entirely to the Verona terminal, decreased in 2020 mainly attributable to the fire prevention system.

Waste



Comments on the trend

The considerable drop in overall waste over the three-year period is tied to the reduction in non-routine cleaning operations on sludge tanks, drains and yards, especially in 2018. The reduced cleaning of yards following their resurfacing led to a further decrease in 2020.

The portion of waste sent for recycling remained high (approximately 94%).

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Plan to upgrade the vehicle fleet, by purchasing 12 new-generation mobile cranes, bringing the progress of the upgrade of the overall fleet to roughly 40%.	2020	56.5 thousand litres (fuel) 150 tCO ₂	√	Monitoring of diesel consumption for road and work vehicles showed savings of roughly 282 thousand litres, using 2015 (the year prior to the rollout of the new cranes) figures as a base point.
	Upgrade of the shunting engine fleet in Verona and Bari, equal to 67% of the total.	2020	55 thousand litres (fuel) 146 tCO ₂	√	Monitoring of diesel consumption for railway traction showed savings of roughly 220 thousand litres, using 2016 (the year prior to the roll-out of the first two shunting engines) figures as a base point.

Key













Continuous improvement

Raw materials cycle

Energy and emissions

Water cycle

Land



RFI's subsidiaries

Bluferries

Final energy consumption

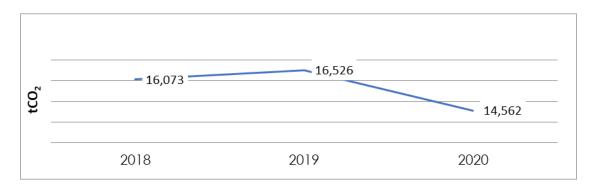
		2020	2019	2018
Diesel	1	6,273,743	7,120,000	6,924,716

Comments on the trend

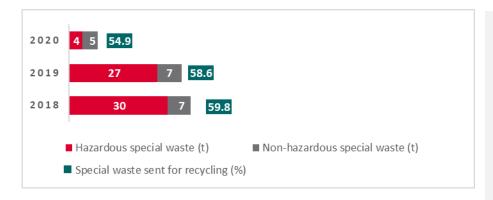
Diesel consumption decreased by roughly 9% over the three-year period, mainly due to the 2018 demerger of a business unit from Bluferries to Blu Jet effective from May 2019. The business regards operating fast boats for passenger transport.

Specifically, there was an approximate 12% fall in diesel consumption in 2020 as a result of the above-mentioned sale of fast boats together with the lower number of journeys made in the first half of 2020 due to the public health emergency. Diesel consumption had increased slightly in 2019 (by roughly 3%) due to the use of another boat in the second half of the year.

Total CO₂ emissions (market based)



Waste



Comments on the trend

There was an overall approximate 76% decrease in waste over the three-year period. This was chiefly due to the roughly 74% drop in hazardous waste produced in 2020 as a result of outsourcing the disposal of oil used on board boats to the relevant port authorities and less non-routine maintenance carried out on ships during the year.

The portion of waste sent for recycling is roughly 55% and only refers to non-hazardous waste.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Introduction of another new boat with EIAPP (Engine International Air Pollution Prevention) certified engines.	2021	365 t (diesel/petrol) 300 tCO ₂		The boat is currently being built.
	Installation of additional desalinators on board the new vessels in the fleet.	2021	700 m ³ of water		The installation of a new boat in the fleet was completed.

Key













Continuous improvement

Raw materials cycle

Energy and emissions

Water cycle

Land



RFI's subsidiaries

Blu Jet²

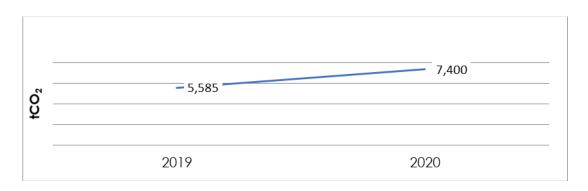
Final energy consumption

		2020	2019	
Diesel	1	3,190,143	2,408,000	

Comments on the trend

2020 figures are higher as the company only began operating in May 2019. An analysis of monthly data shows a reduction in consumption in 2020 as the number of passenger journeys were reduced due to mobility restrictions during the public health emergency.

Total CO2 emissions (market based)



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² The company, which began operating on 1 May 2019, was set up in August 2018, following the demerger of the Bluferries S.r.l. business unit

Italferr

OUR APPROACH

In line with the FS Italiane Group's sustainability strategies, for several years, Italferr has been committed to researching methods and protocols to incorporate sustainable choices in infrastructure projects. It has refined an approach to developing infrastructure project by enhancing the traditional project engineering method with a new outlook focused on opportunities to generate value in the reference area.

Aware of the decisive role that engineering can play in tangibly contributing to the reduction of CO₂ emissions, for several years now, Italferr has voluntarily chosen the UNI ISO 14064 standard to develop and apply a specific methodology for calculating the carbon footprint of projects, certified by an independent body. This methodology has become an effective operating tool guiding designers to improve design solutions and to spur contractors, during the construction phase, to purchase more sustainable construction materials

Another step was taken in 2020 towards systematic use of sustainable methodologies in company processes by setting up a CO₂ rate table. Thanks to this innovative tool, the Group can apply its methodology for calculating carbon footprint to all projects. It creates an inventory of the CO₂ emissions linked to the materials, transport and processing used in the construction of infrastructural works on the basis of price items used in developing projects. The CO₂ rate table was ISO 14064 certified by the certification body SGS after its audit of the Venice airport railway connection project during the year.

In addition, the company's carbon footprint was also a factor in quantifying the CO₂ emissions from its processes and operations, in accordance with UNI EN ISO 14064:2012 and ISO/TR 14069:2013 standards, with the aim of identifying opportunities to boost efficiency at the company's sites.

As part of integrating sustainability into the design of infrastructure, implementing new models and tools aimed at boosting stakeholder engagement is particularly important. Accordingly, the company worked on structuring a stakeholder engagement process in 2020 to create a broad support network throughout the regions touched by infrastructure projects. This engagement process helps identify stakeholder expectations and needs, pinpointing opportunities for development in the regions which can be used to steer new project exploration and get a full picture of the project. A broader analysis not simply focused on technical aspects helps understand the role of infrastructure as an active player in the modelling of landscape, the redevelopment of land and the creation of new economic and social dynamics.

Specific sustainability studies and analyses were developed using indicators chosen based on Italferr's stakeholder engagement guidelines to enhance the benefits offered by infrastructure projects and their capacity to create value in terms of economic, environmental, social and tourist development of the regions.

In addition, Italferr developed a specific sentiment analysis platform which enables social media monitoring of strategic infrastructure projects. The platform allows active listening to help gauge opinions. It processes huge quantities of data gathered from online texts (websites, social networks, blogs or forums) and provides an insight into perceptions on key issues of interest to stakeholders.

Environmental planning plays a crucial role for improving the way the works interact with the local area and people. The company carries out specialised studies to check the projects' impacts on the environment and landscape and, more in general, to assess the direct and indirect effects that the construction of infrastructures could have. Furthermore, Italferr develops specific plans to identify material aspects related to processing at sites, mitigation measures and monitoring to ensure proper control over the construction of works.

The focus on the environment, the essence of sustainable construction contracts for works, require the contractors to adopt specific environmental management systems that meet UNI EN ISO 14001 standards.

Italferr requires that the construction companies responsible for the works design and implement, for the entire duration of the works, an environmental management system for the site activities that provides the company and appointed bodies with objective evidence of the environmental controls conducted in the course of the work performed by the contractor's qualified personnel.

This system requires that, before commencing the work, the contracting companies carry out an environmental analysis of the site activities as part of the environmental plan for the site, to identify the material environmental aspects to be managed during the work and define the operating methods to be used for the proper environmental supervision of the site in compliance with the applicable regulations.

Italferr verifies that the contracting companies implement the environmental management system through ongoing site oversight. The environmental management system is part of the integrated quality, environment and occupational health and safety management system (ISO 9001, ISO 14001 and ISO 45001), also audited in 2020 by the certification body SGS which confirmed the company's certifications.

ISO 14064.1 certification of the company's methodology for calculating carbon footprint and CO₂ rate table was also confirmed by the competent third-party body in December 2020.

In accordance with the FS Italiane Group's sustainability governance model issued with Group measure no. 268/AD of 30 May 2019, Italferr began building its own materiality matrix during the year. This tool highlights the issues most impacted by the company so that it can define future goals and effectively steer its sustainability strategies. The materiality analysis engaged stakeholders on issues deemed priority for Italferr in promoting an inclusive, sustainable development model and, as a result, identified the material issues.

The recent European Green Deal - the manifest of the new Europe envisaged by the President of the European Commission Ursula Von der Leyen - explicitly requires an innovation strategy that is rooted in the sustainable development goals (SDGs) and harnesses sustainability and innovation as the most efficient way to achieve its ambitious objectives. Italferr endorses a sustainability approach that encompasses innovation as a crucial lever to implement a new business model capable of generating value by exploiting the opportunities of digital transformation geared towards designing and building works in an increasingly integrated, efficient and automated manner.

Final energy consumption

		2020	2019	2018
Electricity	MWh	2,321	2,266	2,311
with guarantee of origin or self-produced using	%	14%	10%	0%
photovoltaic technologies				
Diesel	1	116,025	142,884	123,471
Natural gas	Sm^3	20,584	23,002	25,607

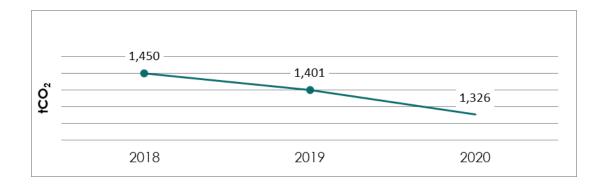
Comments on the trend

An analysis of energy consumption shows a slight rise in electricity consumption in 2020 following the opening of three new offices in Genoa, Naples and Bari. However, the increase in consumption as a result of these new openings was partially offset by lower electricity consumed due to employees working from home during the public health emergency.

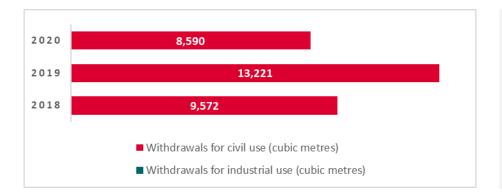
There was a rise in the percentage of electricity from certified renewable sources.

Diesel consumed for company cars decreased as cars were used less during the public health emergency and also as some company cars were replaced with petrol and natural gas fuelled vehicles. However, the reduction in diesel consumption was not particularly significant as site personnel used company cars to a greater extent in 2020 due to restrictions to train travel during the public health emergency.

Total CO₂ emissions (market based)



Water



Comments on the trend

Less water was consumed in 2020 due to employees working from home during the public health emergency.

Waste



Comments on the trend

Figures remained essentially unchanged. The reduction in non-hazardous special waste is a result of less waste produced from transfers and optimised office spaces.

Scope	Description	Deadline	Average annual savings/target	Stat Notes us
	Purchase of energy from certified 100% renewable sources for all utilities at Italferr sites.	2020	+ clean energy	✓
	Replacement of the refrigeration units used for air conditioning with energy-efficient machines.	2021	- CO ₂	Ferservizi was entrusted with replacing the refrigeration units, solely at the site in Via Galati 71, Rome. It begun the process of procuring the new units which it expects to complete by the end of 2021.
	Installation of a photovoltaic plant at the Rome site.	2021	- CO ₂	The executive design process is under way.
	Installation of water distribution machines at all operating sites.	2020	- 200 thousand plastic bottles (0.5-litre)/year	
NEW	Replacement of the plastic cups used in coffee machines with paper cups.	2021	- plastic	
	Sustainability analyses and study of projects to improve local areas, making them more attractive to tourists, to effectively manage the stakeholder engagement process	Ongoing	+ control + positive external factors	√
	Implementation of guidelines for sustainable water management at work sites and during operations, with respect to recycling/reuse.	2020	- consumption of water	
	Water consumption of third-party utilities is now separated at all sites assigned by RFI with specific meters for each user other than RFI	2020	20,000 m ³ of water	

Scope	Description	Deadline	Average annual savings/target	Stat Notes us
	Setting up a summary dashboard on the SIGMAP portal for checking RFI's national water consumption.	2020	- consumption of water	The water dashboard provides overviews on data that allow the relevant parties use and share key information. It also highlights consumption trends and swiftly detects irregularities, such as leaks or faults, thus avoiding needless costs or water wastage.
	Pilot project for installing a digital model of the subservices at Pomezia station	2020	+ efficiency	Digitalisation of networks and plants enables, inter alia: 1. improving management and maintenance of the assets; 2. optimising use of raw materials; 3. cutting the time required to acquire databases for new projects; 4. managing authorisation deadlines.

Key













Continuous improvement

Raw materials cycle

Energy and emissions

Water cycle

Land



Ferservizi

OUR APPROACH

In accordance with the guidelines in the sustainability governance model and the FS Italiane Group's occupational health and safety guidelines and objectives and furthering its commitment to the integrated management of the requirements of major international standards, Ferservizi considers the quality of its services, the protection of the environment and the protection of occupational health and safety strategic elements in developing its business.

As part its goal of continuous improvement, Ferservizi is committed to pursuing:

- customer satisfaction by meeting agreed requirements, which it verifies through the appropriate monitoring and recording of feedback on customer satisfaction with services provided;
- the engagement, awareness and information of people through training and internal communication, to raise their awareness of the contribution that each can give;
- the definition of measurable objectives in line with company strategies, using the necessary means and resources for their pursuit;
- full compliance with the applicable legislation and, where possible, exceeding it by investing in people and protecting environmental resources;
- the involvement of the concerned parties so that they efficiently implement policies capable of spreading awareness among all workers;
- constant focus on the procurement chain, considering compliance with adequate technical and organisational requirements on occupation health and safety and their adequacy over time, in accordance with established standards and requirements, as necessary conditions for continuing the contractual relationship;
- the consolidation of a risk prevention culture to create healthy and safe work environments and promote responsible conduct, partly to pursue the Group's objective of constantly reducing accidents;
- the rational and efficient use of natural resources and raw materials by reducing consumption and energy use, promoting the use of energies from renewable sources, the optimisation of the waste cycle and the prevention and reduction of pollution for the entire life cycle.

Final energy consumption

		2020	2019	2018
Electricity	MWh	2,574	3,192	3,592
with guarantee of origin or self- produced using photovoltaic technologies	0/0	100%	100%	100%
Self-produced and consumed	MWh	54	25	25
solar energy				
Diesel	1	124,992	138,293	132,752
Natural gas	Sm^3	217,836	330,601	404,215

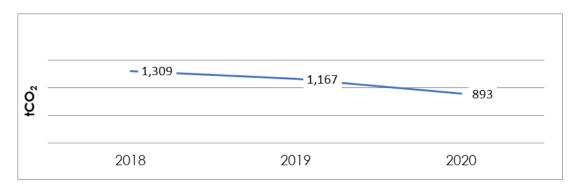
Comments on the trend

Electricity, diesel and natural gas consumption decreased overall due to spaces (storage facilities, Ferrotels (railway hotels) and offices) being used less during lockdown and employees working from home as an emergency measure due to the pandemic.

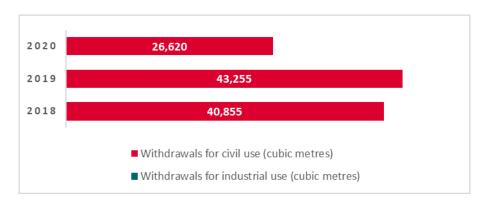
Specifically, reduced diesel consumption was also due to lower usage of company cars for work travel, again as a result of the epidemiological emergency and the closure of the Como Ferrotel whose heating system was fuelled by diesel. In addition to the public health emergency, reduced natural gas consumption was also caused by the closure of the Milan and Turin Ferrotels, in November and May 2019 respectively, whose heating systems were fuelled by natural gas.

The increase in self-produced electricity is due to the photovoltaic plants in Trieste, Reggio Calabria and Naples becoming operational as per the ten-year plan to improve energy efficiency.

Total CO₂ emissions (market based)



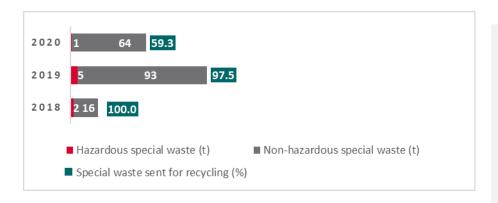
Water



Comments on the trend

Water consumption decreased due to spaces (storage facilities, Ferrotels and offices) being used less during lockdown and employees working from home as an emergency measure due to the pandemic as well as the closure of the Ferrotels in Como (2020), Turin and Milan (2019).

Waste



Comments on the trend

Waste production decreased due to spaces (storage facilities, Ferrotels and offices) being used less during lockdown and employees working from home as an emergency measure due to the pandemic as well as the closure of the Ferrotels in Como (2020), Turin and Milan (2019).

Scope	Description	Deadline	Average annual savings/target	Status Notes
->	Plans to build photovoltaic plants of 6-20 kWp at the local Venezia Mestre and Rome sites and the Verona and Foligno storage facilities for a total of 61 kWp.	2021	13.1 tep approximately 25 tCO ₂	
	A photovoltaic plant was built on the roof of the Bari site (20 kWp) and the Ferrotels in Ancona, Chiusi and Porta Maggiore (two floors) transitioned to LED lighting.	2020	10.2 tep approximately 19 tCO ₂	
	Supplier audit activities: extension of activities to hotels and canteens.	2021	+ quality	
	Activities to maintain ISO 9001, ISO 45001 and ISO 14001 certification of the integrated system in 2021.	2021	+ culture	
	Updating of system tools: integrated system policy, integration of the quality system with the environment and safety systems, reviewing IT environments, KPI reporting and review methods, streamlining checklists.	2021	+ quality	
	Stakeholder engagement process: materiality analysis, widening scope of self-assessment questionnaires to suppliers, mapping services and identifying material issues in achieving sustainability goals.	2021	+ dialogue	
	Employee engagement actions : training/information sessions to update on legislation and spread awareness of safety and environmental issues.	2021	+ culture	

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Periodic information to employees on salient management system activities to explain how it functions for the consolidation of shared awareness .	2020	+ culture	V	
	Sending self-assessment questionnaires on environmental sustainability to all suppliers with a significant impact on 2020 revenue.	2020	+ quality + culture	V	
	Creation of an e-mail account to receive complaints from customers relating to location services and technical-asset services and sales services/agreements.	2020	+ customer satisfaction	✓	

Key



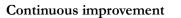












Raw materials cycle

Energy and emissions

Water cycle

Land



Ferrovie del Sud-Est e Servizi Automobilistici

OUR APPROACH

FSE operates as both infrastructure operator and railway company. It manages 474 km of railway lines in the four southern provinces of Puglia, offering a widespread integrated rail and road service in over 130 municipalities in the region of Puglia.

In line with the FS Italiane Group's strategic guidelines, FSE believes that the quality and sustainability of its services are essential to its business. It is committed to improving its quality management and worker health and safety systems and certifying its environmental management system to establish the integrated management of business processes in accordance with the requirements of major international standards.

Final energy consumption

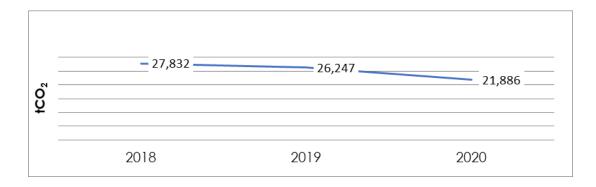
		2020	2019	2018
Electricity for railway traction	MWh	1,271	566	0
Electricity for other uses	MWh	4,035	4,416	4,481
with guarantee of origin or self- produced using photovoltaic technologies	0/0	100%	100%	98%
Diesel	1	7,957,754	9,722,983	10,385,717
Natural gas	Sm^3	37,144	42,015	50,114

Comments on the trend

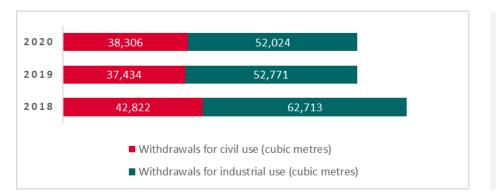
The consumption of electricity for railway traction increased in 2020 due to the gradual rise in railway production using electric trains on the previous year.

Diesel consumption dropped as a result of the lower volume of operations fuelled by diesel following the electrification of part of the overall railway service along with the 5% reduction of road passenger transport service during the public health emergency.

Total CO₂ emissions (market based)



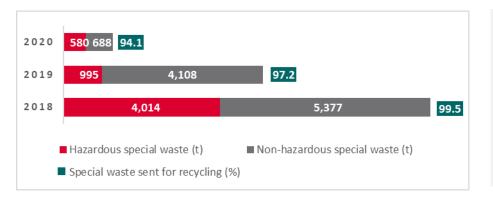
Water



Comments on the trend

Water consumption at company offices, stations and industrial sites remained basically unchanged.

Waste



Comments on the trend

The production of special waste is chiefly linked to superstructure material deriving from the upgrade of FSE's railway infrastructure. Less upgrade work was carried out in 2020 compared to previous years.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	New electric trains began operating, with lower atmospheric emissions than diesel trains.	2023	+ electrification		In September 2019, the first five ETRs began operating on the Bari-Putignano line. Another six ETRs will be purchased and delivered in 2020 and 2021, with the roll-out of another four electric trains slated for 2022 and 2023.
	Electrification of the following railway lines: Martina Franca - Lecce, Maglie - Otranto, Zollino - Gagliano and the Lecce – Zollino section.	2023	- CO ₂		The overall project provides for the electrification of 186 km lines from Martina Franca to Gagliano del Capo. The goal is to raise the environmental standards and reduce CO ₂ emissions.
	New Euro 6 buses to upgrade the fleet.	2021	+ technology - CO ₂		52 new buses will be purchased to continue the technological upgrade of the fleet. The purpose of the fleet upgrade and thorough actions taken on service maintenance and production processes is to improve service satisfaction levels.
	Strengthening the railway superstructure on the Bari - Taranto line, replacing wood sleepers on the line with concrete sleepers, activating the train speed control system (TSCS).	2022	+ safety	(7)	Infrastructure upgrading to bring the line up to RFI standards and in line with the technical specifications of European interoperability.
(P)	Continue with the certification of the ISO 14001 environmental management system	2021	+ culture		

Key



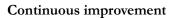












Raw materials cycle

Energy and emissions

Water cycle

Land



Anas

OUR APPROACH

Anas S.p.A. considers sustainable development a crucial aspect when taking decisions about how to operate the roadway and motorway network. It believes in protecting the land and landscape and striving for innovation in new methodologies for the designing, processing, recycling of materials and, in general, protecting the environment.

To develop sustainably, Anas carefully assesses all impacts and promotes the adoption of criteria, guidelines and procedures to reduce the environmental impact of its activities by: upholding the principles of environmentalism and the responsible use of resources in the planning stages, with the design of projects that integrate environmental protection and enhancement; when setting up new work sites, controlling and monitoring the environmental impacts of its work sites and optimising the consumption of raw materials and natural resources; in operations, reducing and optimising energy consumption; adopting the most advanced solutions to reduce noise pollution by installing noise-dampening barriers and using noise-dampening asphalt, in compliance with the national noise containment and mitigation plan.

By continuously improving its environmental performance, Anas recognises that it achieves significant advantages, minimising all the adverse environmental impacts of its activities wherever feasible and economically sustainable.

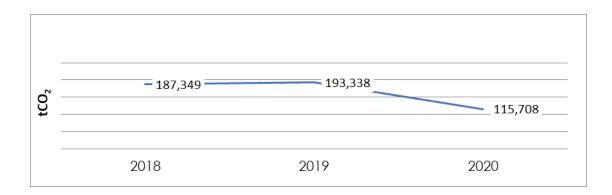
Final energy consumption and emissions

		2020	2019	2018
Electricity to light roads and tunnels	MWh	351,631	366,666	367,783
with guarantee of origin or self- produced using photovoltaic technologies		40%	0%	0%
Electricity for other uses	MWh	12,180	11,627	11,796
with guarantee of origin or self- produced using photovoltaic technologies		44%	1%	3%
Diesel	1	3,643,474	4,512,455	3,732,318
Natural gas	Sm^3	497,510	450,658	413,237

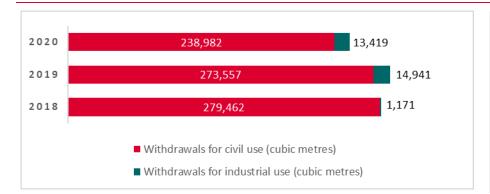
Comments on the trend

Diesel consumption fell roughly 20% as company cars were used less during the lockdown imposed due to the public health emergency. There was an increase in natural gas consumption mainly due to new utilities contracts activated. Electricity consumption was more or less in line with the previous year, with a higher percentage from certified renewable sources. Indeed, Anas has been purchasing green energy under the Consip agreement since August 2020.

Total CO₂ emissions (market based)



Water



Comments on the trend

Low employee attendance at offices during the public health emergency led to reduced water withdrawn for civil use compared to 2019. Reduced water consumption for industrial use is particularly attributable to company cars being washed less.

Waste



Comments on the trend

The increase in both hazardous and non-hazardous special waste is due to non-routine disposal of materials at the workshops and car parks of some local sites.

Scope	Description	Deadline	Average annual savings/targets	Status	Notes
	 The oil and food service concessions were renewed at the 10 service areas along the A90 and A91 motorways, which led the concession operators to install: 10 photovoltaic plants at refuelling stations with capacity of 19.950 kW; 10 solar thermal plants to heat water for the workers' toilets; LED light bulbs for the refuelling area, the yard, the shelter and the sales room; air conditioning system for all rooms in the buildings, powered by higherficiency, low-energy absorption heat pumps. 	2028	- CO ₂ + clean energy + customer satisfaction	()	
	Project to improve the energy efficiency of Anas sites: • Insulating walls, floors and roofs; • Installing solar panels; • Relighting; • Implementing smart systems; • Replacing systems and devices with energy-saving technology for heating, water heating, air-conditioning and mechanical ventilation; • Replacing windows and fixtures.	2024	17,054 MWh 3,721 tCO ₂	@	
	Green light project: maintenance of tunnel lighting systems by replacing obsolete lighting devices with last-generation LEDs.	2021	22,700 MWh 6,466 tCO ₂		
NEW •	Purchasing green energy for the company's entire energy consumption, which is equal to 380 GWh per year, for lighting roads and tunnels and for other uses.	2021	over 100,000 tCO ₂		
	Studies for the recycling of polymer materials through the use of rubber powder from tyres no longer in use, to produce low-noise, durable floors and light plastics derived from waste bales to produce concrete mixes.	2026	raw materials and noise		
	Project to recycle recovered asphalt concrete (milled) to produce new concrete.	2026	raw materials		
	"ANAS" (Anti-Noise Acoustic Screen): identification and analysis of possible acoustic, environmental and land scenarios to determine the restrictions to which noise abatement barriers are subject.	2021	noise + customer satisfaction		

Scope Description Deac	adline Average a savings/t	Notes
Plastic Free : project to install water fountains at all General Department offices and provide personnel with insulated water bottles is under development.	plastic	

Key













Continuous improvement

Raw materials cycle

Energy and emissions

Water cycle

Land

Busitalia Sita - Nord

OUR APPROACH

The **sustainability policy** adopted by the sub-holding Busitalia (Busitalia - Sita Nord and its subsidiaries) in January 2021 sets out the principles to be pursued to manage impacts responsibly in line with FS Italiane Group strategies in a management system covering all operating sites.

Busitalia's **sustainable action** is broken down into seven commitments including passenger safety, contributing to more inclusive, resilient and sustainable cities, improving air quality and environmental performance, developing quality infrastructure, listening to the local community and enhancing employees.

Specifically, Busitalia channels its commitment into **fighting climate change**, upgrading to a more environmentally-friendly fleet, promoting **efficient use** of energy resources and **sustainable management** of water resources, carrying out energy saving upgrades and procuring energy from renewable sources.

This report is a way of communicating with the communities served by Busitalia, as an integral part of the strategy developed by the FS Italiane Group.

Final energy consumption

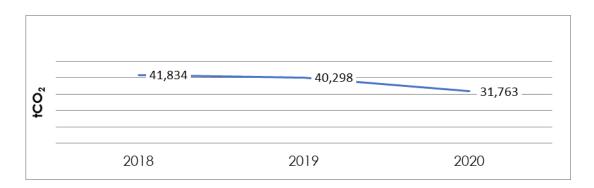
		2020	2019	2018
Electricity with guarantee of origin or self-	MWh	6,598	6,527	7,606
produced using photovoltaic technologies	0/0	100%	100%	87%
Diesel	1	10,712,244	13,390,732	13,161,107
Natural gas	Sm^3	1,671,367	2,382,410	3,244,514

Comments on the trend

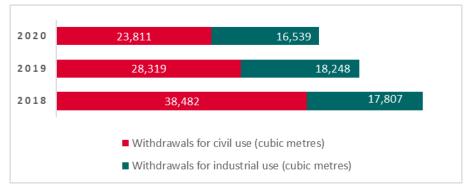
Electricity consumption remained essentially unchanged in 2020 compared to the previous year. All electricity was certified with guarantees of origin once again in 2020 since Busitalia - Sita Nord signed a master agreement in 2018 for the supply of electricity from 100% renewable sources.

The decrease in diesel and natural gas consumption in 2020 was due to the services being reduced during the public health emergency.

Total CO₂ emissions (market based)



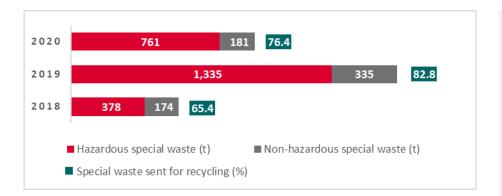
Water



Comments on the trend

The decrease in the consumption of water for civil use at the Umbria and Tuscany regional divisions in 2020 was basically due to employees working from home which led to less usage of company bathrooms, canteens and bars. The decrease in the consumption of water for industrial use is tied to reduced local public transport services during the March-September period due to the public health emergency.

Waste



Comments on the trend

In 2019, the Umbria regional division rolled out an extraordinary plan to scrap buses that had been stored at depots for some time. They were all sent for recycling (hazardous waste) along with obsolete metal equipment (non-hazardous waste).

With regard to hazardous waste at the Tuscany regional division, less vehicles were scrapped in 2020 than in the previous year. Overall, the reduced services were provided using a more recent fleet which required less maintenance and thus generated less non-hazardous waste.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	38 buses with Euro 6 engines were added to the vehicle fleet to replace old-generation vehicles. Another 51 old-generation buses will be replaced by 2021.	2021	258 thousand litres (fuel) 664 tCO ₂	(7)	
	Energy efficiency project on the Busitalia Group fleet to improve the driving performance of drivers using an innovative remote monitoring system .	2022	1.7 million litres (fuel) 4,290 tCO ₂		The first training program was completed for 200 drivers to define the fleet energy efficiency potential that can be achieved through efficient driving.

Key













Continuous improvement

Raw materials cycle

Energy and emissions

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Land

Busitalia - Sita Nord's subsidiaries

Busitalia Veneto

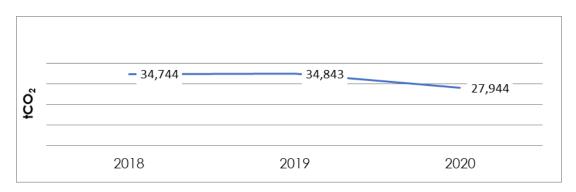
Final energy consumption

		2020	2019	2018
Electricity	MWh	6,135	7,174	6,896
with guarantee of origin or self- produced using photovoltaic technologies	0/0	0%	0%	0%
Diesel	1	7,519,963	9,386,584	9,195,369
Natural gas	Sm^3	2,523,875	3,268,867	3,579,179

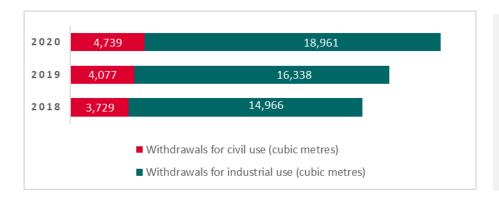
Comments on the trend

Electricity, diesel and natural gas consumption decreased in 2020 mainly as a result of services being reduced during the public health emergency.

Total CO₂ emissions (market based)



Water



Comments on the trend

There was an overall decrease in water withdrawals for civil and industrial use in 2020 (-20% on 2019). However, some hidden leaks - which were fixed during the year - meant both types of consumption figures increased.

Waste



Comments on the trend

Busitalia Veneto produced lower quantities of hazardous and non-hazardous special waste in 2020 due to a lower number of buses scrapped either as hazardous or non-hazardous special waste.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Addition of 17 new low-emissions buses - with Euro 6 (5 diesel and 11 compressed natural gas buses) or zero-emissions engines (one electric bus).	2020	160 tCO ₂	V	14 buses were sent to Padua and three to Rovigo.

Key













Continuous improvement

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Busitalia - Sita Nord's subsidiaries

Busitalia Campania

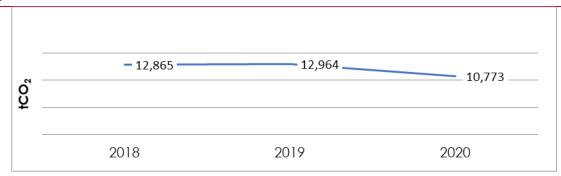
Final energy consumption

		2020	2019	2018
Electricity	MWh	601	642	726
with guarantee of origin or self-produced using photovoltaic technologies	0/0	100%	100%	61%
Diesel	1	3,554,352	4,199,715	4,071,485
Natural gas	Sm^3	670,281	908,226	963,908

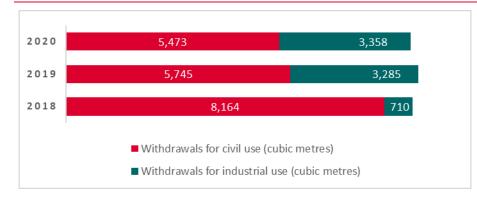
Comments on the trend

There was a decrease in diesel and natural gas consumption in 2020 as a result of services being reduced during the public health emergency. In addition, new Euro 6 diesel buses entered circulation between 2019 and 2020, thus contributing to the drop in consumption.

Total CO₂ emissions



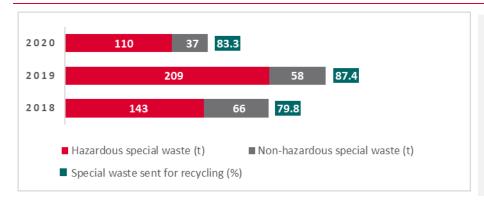
Water



Comments on the trend

The measures implemented to handle the COVID-19 emergency, especially working from home and the bilateral fund, reduced employee presence at company sites, thus cutting the consumption of water for civil use. Withdrawals for industrial use were in line with 2019, with consumption down due to the shutdown of a washing unit that was being upgraded.

Waste



Comments on the trend

The decrease in special waste is linked to reduced internal maintenance activities carried out on the rolling stock fleet due to reduced services during the COVID-19 emergency and the increase in external maintenance.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
Ç.	Improvement in the energy efficiency of offices through the replacement of light bulbs and fluorescent tubes with LED lights and the replacement of air conditioners.	2021	- CO ₂		
	Replacement of 68 buses with new, higher environmental performance models.	2020	110 thousand litres (fuel) 330 tCO ₂	()	Ten Euro 6 buses were rolled out in 2019 to replace old-generation vehicles. Another 53 Euro 6 buses and five hybrid buses (electric/diesel) were rolled out in 2020.
	Replacement of 42 buses with new, higher environmental performance models (Euro 6 engines).	2021	68 thousand litres (fuel) 205 tCO ₂		

Key













Continuous improvement

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Land

Busitalia - Sita Nord's subsidiaries

Ataf Gestioni

Final energy consumption

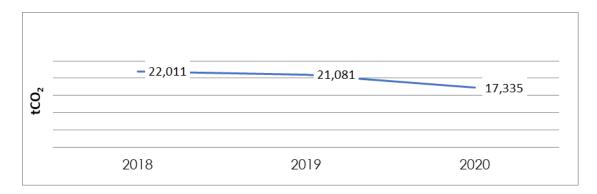
		2020	2019	2018
Electricity	MWh	1,796	2,250	2,894
with guarantee of origin or self-produced using photovoltaic technologies	0/0	100%	100%	94%
Diesel	1	6,112,960	7,162,507	6,531,063
Natural gas	Sm ³	545,939	1,027,116	2,299,629

Comments on the trend

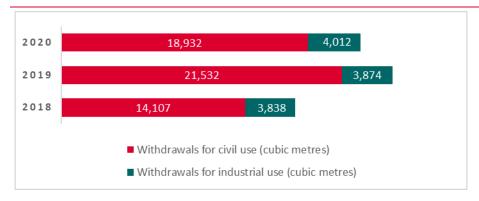
The decrease in electricity volumes is mainly due to lower consumption at offices while employees were working from home during the public health emergency.

Diesel and natural gas consumption also decreased significantly due to the reduction of the road passenger transport service during the public health emergency.

Total CO₂ emissions (market based)



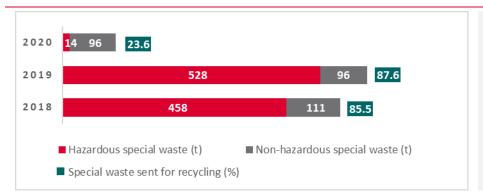
Water



Comments on the trend

The decrease on 2019 is attributable to the lower employee presence and reduced services due to COVID-19. Consumption for industrial use would also be lower but for a leak that was only detected at the end of the year, thus slightly increasing volumes.

Waste



Comments on the trend

The drop in 2020 is attributable to the reduction of hazardous special waste as no vehicles were scrapped during the year.

Busitalia - Sita Nord's subsidiaries

Qbuzz

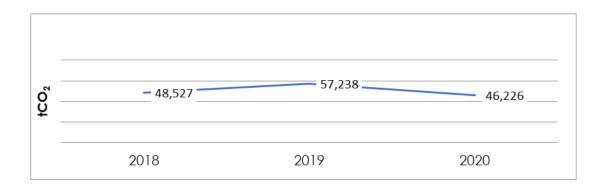
Final energy consumption and emissions

		2020	2019	2018
Electricity with guarantee of origin or self-	MWh	28,325	17,358	4,032
produced using photovoltaic technologies	0/0	100%	100%	100%
Self-produced and consumed solar energy	MWh	40	64	14
Diesel	1	17,253,938	21,365,298	18,121,559
Natural gas	Sm^3	70,451	127,427	112,250

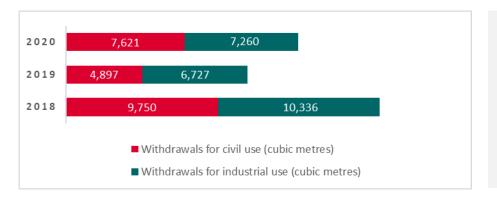
Comments on the trend

Following the roll-out of numerous electric buses into the fleet, electricity consumption jumped considerably and diesel consumption dropped. Overall energy consumption rose due to the strengthening of the fleet with a larger number of buses in 2020 compared to 2019.

Total CO₂ emissions



Water



Comments on the trend

The company expanded its operations at the end of 2019 by acquiring new buildings and a new vehicle washing unit which led to an increase in water consumption for both civil and industrial use in 2020.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Roll-out of 20 hydrogen buses into the vehicle fleet in Groningen.	2021	448 thousand litres (fuel) 1,375 tCO ₂		
	Roll-out of 35 fully-electric articulated buses into the vehicle fleet in Utrecht.	2021	784 thousand litres (fuel) 2,406 tCO ₂		
	Roll-out of 10 hydrogen buses into the vehicle fleet in Emmen.	2022	224 thousand litres (fuel) 687 tCO ₂		

Key













Continuous improvement

Raw materials cycle

Energy and emissions

Water cycle

Land

Mercitalia Logistics

OUR APPROACH

In accordance with the guidelines of FS Italiane Group's sustainability policy and its occupational health and safety action areas and furthering its commitment to the integrated management of the requirements of major international standards, Mercitalia Logistics S.p.A. considers the quality of its services, the protection of the environment and the protection of occupational health and safety strategic elements in developing its business.

The company's commitment to the environment can be seen through the use of rails as the preferred mode of transport in its provision of integrated logistics services, thereby gaining an advantage in terms of sustainable mobility and reducing emissions. It confirmed this sensitivity to environmental issues in the installation - back in 2007 – of a photovoltaic power station at the Roma San Lorenzo site, which contributes to achieving the pollution prevention goal by using alternative sources of energy, thus limiting CO2 emissions into the atmosphere.

In 2018, as sub-holding company, Mercitalia Logistics S.p.A. also launched the preparation and subsequent issue of the first process guidelines for its management and coordination model of Mercitalia hub's subsidiaries.

In particular, the sub-holding company issued the safety, environment and quality process guidelines and the related operating procedures to promote the complete integration of workers' health and safety, integrated management systems, quality, the environment and sustainability in the core fields of its business and that of the Mercitalia hub.

Final energy consumption

		2020	2019	2018
Electricity	MWh	2,045	2,726	2,956
with guarantee of origin or self-produced using photovoltaic technologies	0/0	69%	71%	78%
Diesel	1	1,073	2,744	4,556
Natural gas	Sm^3	20,998	23,852	31,092

Comments on the trend

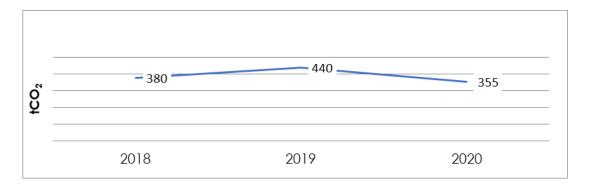
Consumption of electricity for uses other than railway traction was down at all local Mercitalia Logistics sites in 2020 due to working from home being extended to all company employees during the public health emergency.

The use of electricity produced by renewable sources (guarantee of origin) since 2018 has helped strengthen the company's commitment to sustainability issues.

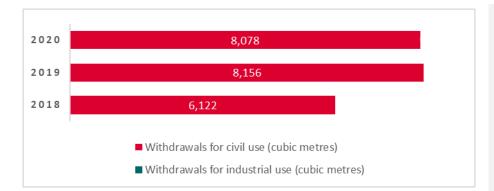
Total diesel consumption decreased from 2018 to 2019 due to the upgrade of the company car fleet, with three petrol/electric hybrid cars replacing three diesel cars. Diesel consumption decreased further in 2020 due to lower usage of company cars as on-site operations could not be carried out during the public health emergency.

The decrease in natural gas consumption in 2019 was due to the retirement of one of the thermal power plants at the Bentivoglio (Bologna) site.

Total CO₂ emissions (market based)



Water



Comments on the trend

Water requirements increased in 2019 following a considerable rise in personnel at the Roma San Lorenzo site. Consumption of water remained more or less unchanged in 2020 despite the lower presence of employees during the public health emergency as billed consumption is estimated by the supplier rather than read. Adjustments are made for actual consumption once the meter has been read.

Waste



Comments on the trend

The waste quantities shown in the table are attributable to the cleaning of the septic tank at the Orbassano site.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
P	Maintaining UNI EN ISO 14064-1:2019 certification to quantify and report on greenhouse gas emissions and extending the scope of application of the integrated management system to include the process for planning company services including the Mercitalia Fast freight transport service.	2020	+ control	/	
P	Maintaining UNI EN ISO 14001:2015, UNI EN ISO 9001:2015 and UNI ISO 45001:2018 certification and extending the scope of application to the process for planning services.	2020	+ control	V	Extending the scope of application of the UNI ISO 45001:2018 standard to the Florence site.
P	Drafting the sustainability plan and materiality matrix of Polo Mercitalia.	2020	+ commitment	√	The materiality matrix was presented to the secretary of the FS Italiane Group's Sustainability Committee, all members of senior management and Polo Mercitalia personnel.
P	Organising the Safety & Sustainability Day focused on the topic "Working safely during COVID".	2020	+ commitment	✓	

Key













Continuous improvement

Raw materials cycle

Energy and emissions

Water cycle

Land

Mercitalia Logistics' subsidiaries

Mercitalia Rail

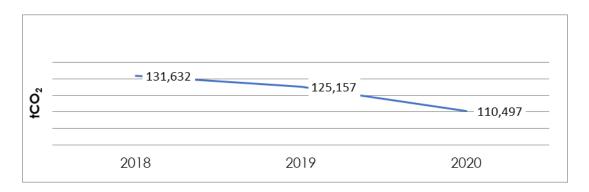
Final energy consumption

		2020	2019	2018
Electricity for railway traction	MWh	353,005	369,435	375,803
Electricity for other uses	MWh	2,413	2,721	3,005
with guarantee of origin or self-produced using photovoltaic technologies	0/0	100%	100%	0%
Diesel	1	1,510,560	2,086,894	2,753,624
Natural gas	Sm^3	911,554	1,341,484	1,067,300

Comments on the trend

Electricity and diesel consumption decreased significantly in 2020 mainly as a result of services being reduced during the public health emergency. The decrease in natural gas consumption is also attributable to the public health emergency with large numbers of employees working from home.

Total CO₂ emissions (market based)



Water



Comments on the trend

The 2018 figure was influenced by the industrial water consumption declaration at the Verona maintenance plant. The MIR segment wrongly declared its water consumption in 2018 unlike in previous years, thus causing this irregular trend.

Water withdrawals for civil use increased from 2019 to 2020 due to consumption at the Milan train maintenance site despite the roughly 6,660 m³ reduction recorded by the Adriatica Nord production site following a leak fixed near Parma.

Waste



Comments on the trend

There was a generalised decrease in waste at most sites in 2020, especially non-hazardous special waste.

Specifically, the largest decrease was recorded at the Liguria production site (down approximately 10,000 m³) and at the Turin current maintenance plant (down approximately 4,000 m³) as the campaign to demolish railway cars was downsized during the public health emergency.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Upgrade of the fleet with electric engines, diesel engines and last-generation wagons improving the efficiency and sustainability of the transport service: • 40 E494 electric engines • 5 diesel engines • 240 coil cars	2021	- 52.4 tCO ₂ + quality		The annual average CO2 savings are solely attributable to the electric engines and cars rolled out. The diesel engines are currently being tested on site for best energy efficiency before purchasing.
	Use of environmentally sustainable materials for maintenance plants, such as water-based paint and oils that have a smaller impact on the environment.	2020	+ respect for the environment	V	
	Development of processes and initiatives to reduce waste production , for example by setting company targets for the % of waste sent for recycling, sorted waste, etc	2020	- waste produced +2% waste sent for recycling	V	
	Spreading awareness about the parsimonious use of water by attaching notices to bulletin boards about the proper use of water, reducing the number of changing rooms and the consolidation of bathrooms.	2021	water consumption	(7)	These are targeted projects in certain locations (e.g., Pisa Centrale, Grosseto, Livorno and Chiusi).

Key













Continuous improvement

Raw materials cycle

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Land

Mercitalia Logistics' subsidiaries

Mercitalia Shunting & Terminal

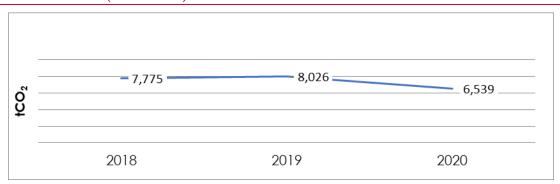
Final energy consumption

		2020	2019	2018
Electricity for railway traction	MWh	828	866	921
Electricity for other uses	MWh	419	411	407
with guarantee of origin or self-produced using photovoltaic technologies	%	10%	10%	10%
Self-produced and consumed solar energy	MWh	40	39	42
Diesel	1	2,267,230	2,800,000	2,717,948

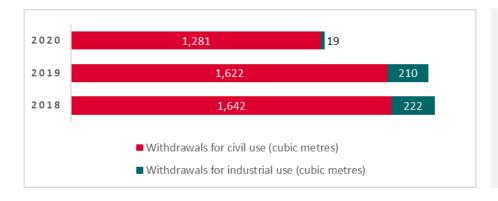
Comments on the trend

The consumption of diesel for railway traction dropped considerably as a result of services being reduced during the public health emergency, especially with regard to the suspension of the cruise passenger service at Civitavecchia-Roma San Pietro.

Total CO₂ emissions (market based)



Water



Comments on the trend

Lower water consumption, especially for civil use, is chiefly due to employees working from home during the public health emergency in 2020.

Waste



Comments on the trend

The changes in the amount of waste produced, some of which were substantial, were due to contracts and maintenance on the superstructure by the Construction Division.

Scope	Description	Deadline	Average annual savings/target	Status Notes
	The "2.0 shunting locomotive revamping" project to revamp 26 engines.	2022	- CO ₂	
NEW •	Acquisition of six CZ Loco 744 and 741 shunting engines.	2021	- CO ₂	
NEW •	Acquisition of two diesel/electric hybrid shunting engines at the La Spezia site.	2022	- CO ₂	
	Continuation of the noise and vibration monitoring campaign at sites that had not yet been checked and newly-opened sites (10 sites checked).	2020	- noise	

Key













Continuous improvement

Raw materials cycle

Energy and emissions

Water cycle

Land

Mercitalia Logistics' subsidiaries

TX Logistik

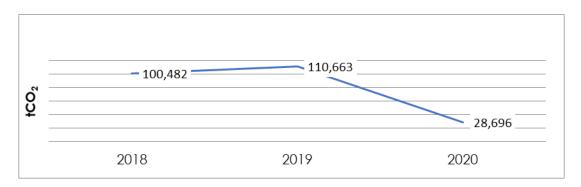
Final energy consumption

		2020	2019	2018
Electricity for railway traction	MWh	160,367	150,000	145,841
with guarantee of origin or self-produced using photovoltaic technologies		78%	0%	0%
Electricity for other uses	MWh	708	730	720
with guarantee of origin or self-produced using photovoltaic technologies	%	0%	0%	0%
Diesel	1	128,330	128,161	135,630

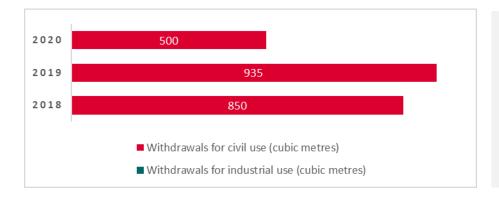
Comments on the trend

There was a significant increase in the percentage of electricity from certified renewable sources in 2020. Diesel consumption remained unchanged, while the decrease in 2019 was due to changes in the company car fleet.

Total CO₂ emissions (market based)



Water



Comments on the trend

The trend is substantially steady. The decrease in withdrawals in 2020 is attributable to the reduction of work activities during the public health emergency.

FS Sistemi Urbani

OUR APPROACH

FS Sistemi Urbani is responsible for developing the Group's assets which are not functional for railway operations and providing integrated urban services with a business-oriented approach, as well as streamlining and improving the functioning and service offered to the public.

The company's mission is, therefore, focused on environmental and social aspects, handling any potentially critical issues by carefully planning and redeveloping land with intermodal and urban-planning solutions.

The company began a process to implement sustainability within its governance system. In 2020, it carried out a materiality analysis comparing company and stakeholder interests and highlighting areas that have a significant impact on the company's ability to create long-term value and which require strategic action.

Scope	Description	Deadline	Average annual savings/target	Status	Notes
	Development of FS Italiane Group areas for urban regeneration and environmental, tourism and archaeological development in the Appia Antica Park.	2023	+ regeneration of natural capital		An urban regeneration and smart, green development master plan was drafted.
	Development of FS Italiane Group areas at Roma Tuscolana for environmental and urban regeneration via the international Reinventing Cities competition.	2024	+ regeneration of natural capital		The five finalist projects of the first phase of the competition were chosen and the second phase was initiated.
	Urban regeneration project for the Rome hub railway areas no longer in use as part of the "green circle" from Roma Tiburtina to Roma Trastevere.	TBD	+ regeneration of natural capital		The general structure outline of the green circle was approved.
	Development of FS Italiane Group areas in Turin for urban regeneration.	2023	+ regeneration of natural capital		FS Sistemi Urbani's "Rail City Lab" project won the 2020 Urban Planning Award in the "Environmental, economic and social regeneration" category voted by participants in the 2019 edition of the UrbanPromo event.
	Development of the Venezia Mestre – Parco del Piraghetto areas for urban regeneration and environmental development.	2023	+ regeneration of natural capital		The service conference was completed and the programme contract was signed.
	Development of FS Italiane Group areas at the Verona Porta Nuova hub, turning the freight hub areas into a city park enhanced with new functions for a total surface area of 450,000 m ² .	2023	+ regeneration of natural capital		An addendum was added to the memorandum of understanding with the Veneto regional authorities and Verona municipal authorities. The call for tenders for the urban-planning variation was published.
	Development of FS Italiane Group areas at Milano Greco-Breda for environmental and urban regeneration via the international Reinventing Cities competition.	2020	+ regeneration of natural capital	√	Winning project "L'Innesto" for zero carbon social housing – area sold.
	Urban regeneration project for the Milano Porta Romana hub, for a total surface area of roughly 190,000 m ² with roughly 164,000 m ² suitable for building on. The development includes a large park, with an area of roughly 100,000 m ² , surrounded by houses, offices, social housing, student housing and services interconnected with the entire metropolitan area.	2021	+ regeneration of natural capital		The winning team was chosen for the tender to sell the area and draft the master plan.

	Brera Academy "Campus of Arts" at the Farini Scalo Unit within the special Farini zone, with an extension of roughly 25,000 m ² for around 3,500 students and 400 workers.	2021	+ regeneration of natural capital		A feasibility study was drafted by the Brera Academy.
	Development of FS Sistemi Urbani areas at the Milano Lambrate hub for environmental and urban regeneration via the international Reinventing Cities competition.	2021	+ regeneration of natural capital		The five finalist projects of the first phase of the competition were chosen and the second phase was initiated.
	Project for constructing a recreational path along the retired Genoa-Ventimiglia railway line , between San Lorenzo al mare and Andora, and redevelopment of idle areas like former freight terminals and/or retired passenger buildings.	2023	+ regeneration of natural capital		
	Plan to redevelop and reorganise the Napoli Garibaldi intermodal hub.	2023	+ regeneration of natural capital		
(P)	Roll-out of process to implement sustainability within the FS Sistemi Urbani governance system via a stakeholder engagement process and by drafting a materiality matrix .	2020	+ quality	√	















Raw materials cycle

Energy and emissions

Water cycle

Management systems

The following table shows the certification scopes for the various Group companies. The "Integrated systems" column shows information on the integration of the management systems (Quality, Environment, Occupational safety).

Ferrovie de	llo Stato Italiane	Integrated systems: -
Environment (E)	operating companies, implementing cor- Group's business plan, governing and m	licies and industrial strategies for the Group's porate governance processes, preparing the conitoring corporate relationships within the overnment and other institutional authorities.

RFI Integrated systems: Q + E + SCommercial and Network Operation Department and Steering Departments Scope: management of train traffic to ensure safe railway operation. Production Department (PD) and Local Production Units Scope: maintenance of the railway infrastructure to ensure safe train travel and railway operation and the performance of train travel and shunting activities; ✓ design in the railway engineering sector (superstructure, signalling and Quality (Q) telecommunications systems and electrical traction), civil engineering, road engineering and environmental protection in the railway field. National Electric Equipment Workshop - Bologna, the PD's national workshops Scope: maintenance to ensure safe train travel and railway operation through the inspection, repair, rehaul and assistance for vehicles operating on the rails and railway equipment for electrical traction systems and safety and signalling systems.

National Superstructure Workshop - Pontassieve, the PD's national workshops Scope:

maintenance to ensure safe train travel and railway operation; construction of railway super structure equipment through mechanical processing, welding, assembly and attachment of rails and railway diverters.

National Carriage Workshop - Catanzaro, the PD's national workshops Scope:

✓ maintenance to ensure safe train travel and railway operation through general inspections, non-routine maintenance, 5-year checks, repairs and assistance for the vehicles operating on rails.

Central Divisions

Scope:

✓ design, construction, implementation, management and maintenance of national railway infrastructure.

Steering Divisions

Scope:

✓ management of train traffic to ensure safe railway operation.

Local Production Units

Scope:

✓ maintenance of the railway infrastructure to ensure safe train travel and railway operation and the performance of train travel and shunting activities.

Environment (E)

National Electrical Equipment Workshop - Bologna, the PD's national workshops Scope:

maintenance to ensure safe train travel and railway operation through the inspection, repair, rehaul and assistance for vehicles operating on the rails and railway equipment for electrical traction systems and safety and signalling systems.

National Superstructure Workshop - Pontassieve, the PD's national workshops Scope:

maintenance to ensure safe train travel and railway operation; construction of railway super structure equipment through mechanical processing, welding, assembly and attachment of rails and railway diverters.

National Carriage Workshop - Catanzaro, the PD's national workshops Scope:

maintenance to ensure safe train travel and railway operation through general inspections, non-routine maintenance, 5-year checks, repairs and assistance for the vehicles operating on rails.

Steering Divisions

Scope:

management of train traffic to ensure safe railway operation.

Local Production Units

Scope:

maintenance of the railway infrastructure to ensure safe train travel and railway operation and the performance of train travel and shunting activities.

National Electrical Equipment Workshop - Bologna, the PD's national workshops Scope:

maintenance to ensure safe train travel and railway operation through the inspection, repair, rehaul and assistance for vehicles operating on the rails and railway equipment for electrical traction systems and safety and signalling systems.

Occupational safety (S)

National Superstructure Workshop - Pontassieve, the PD's national workshops

Scope:

maintenance to ensure safe train travel and railway operation; construction of railway super structure equipment through mechanical processing, welding, assembly and attachment of rails and railway diverters.

National Carriage Workshop - Catanzaro, the PD's national workshops Scope:

maintenance to ensure safe train travel and railway operation through general inspections, non-routine maintenance, five-year checks, repairs and assistance for the vehicles operating on rails.

Bluferries Integrated systems: Q + E + S

Quality (Q)

Bluferries (Registered office, operating sites and owned ships) Scope:

Maritime transport using roll-on roll-off (ro-ro) ships and high-speed craft (HSC)

Environment (E)

Safety (S)

Terminali Italia Integrated systems: Q + E + S

Quality (Q) Scope:

Terminali Italia (Headquarters and operating sites)

management and operation of terminals equipped for intermodal transport;

Environment **(E)**

provision of terminal services through shunting, container handling and accessory services.

Safety (S)

Trenitalia	Integrated systems: Q + E +		
Quality (Q)	Trenitalia (Headquarters and operating sites) Scope:		
	design and provide integrated mobility passenger transport by rail.		
Environment (E)			
Occupational safety (S)			
Trenitalia (C2C Integrated systems: -		
Environment	Trenitalia C2C		
(E)	Scope: ✓ operation and maintenance of infrastructure and the fleet controlled by C2C on the		
	Tilbury and Southend routes arriving from and departing for London Fenchure		
Occupational safety (S)			
Busitalia - S			
	Busitalia - Sita Nord (Headquarters and regional divisions) Scope:		
	 ✓ design and provision of transport services using buses, trolley buses, railways and ships: 		
	local public transport. Design and provision of transport services using buses: lon		
Quality (Q)	haul lines, rentals, replacement and integrated rail services and atypical services. Roll-		
	out of alternative mobility services (lifts, cable railways, escalators and moving		
	walkways). Maintenance and depot facilities for its own vehicle fleet and alternative		
	mobility. Sea works and dredging. Management of parking areas and rest areas.		
	Busitalia - Sita Nord (Headquarters and regional divisions)		
	Scope: ✓ design and provision of transport services using buses and trolley buses: local publ		
Environment	transport. Design and provision of transport services using buses: long haul lines,		
(E)	rentals and atypical services. Roll out of alternative mobility services (lifts, cable		
	railways, escalators and moving walkways). Maintenance and depot facilities for its own		
	vehicle fleet. Management of parking areas and moors.		
	Busitalia - Sita Nord (Headquarters and regional divisions)		
Occupational	Scope:		
safety (S)	✓ design and provision of transport services using buses and trolleys: local public		
	transport. Design and provision of transport services using buses: long haul line		
	rentals and atypical services. Maintenance and depot facilities for its own vehicle flee		
Busitalia V			
Quality (Q)	Busitalia Veneto (Headquarters and operating sites) Scope:		
Environment	design and provision of transport services using buses and trolleys: local public		
(E)	transport. Design and provision of transport services using buses: long haul lines,		
Occupational safety (S)	rentals and atypical services. Maintenance and depot facilities for its own vehicle		
	fleet.		

Busitalia Ca	ampania	Integrated systems: -	
Quality (Q)	Scope: ✓ design and provision of tran lines, rentals and atypical se	alia Campania (Headquarters and operating sites)	
Ataf Gestio	*	Integrated systems: Q + E	
Quality (Q) Environment (E)	Ataf Gestioni (Headquarters and Scope:	·	
Mercitalia I	Logistics	Integrated systems: Q + E + S	
Quality (Q) Environment (E)	1	ne Mercitalia operating companies; n of logistics services in connection with sundry freigh	
Occupational safety (S)	 ✓ management of real estate assets Organisation of "fast" transport by trail logistics for sundry freight through third-party coordination ✓ process for planning company services including the "FAST" freight transport services. 		
Mercitalia S	Shunting&Terminal	Integrated systems: Q + E +	
Quality (Q)	Mercitalia Shunting&Terminal (Udine) Scope:	Headquarters, Genoa office and operating site in	
Environment (E)		enance and restructuring of railway connections; sport services as railway company in the national railwa	
Occupational safety (S)	 ✓ management of shunting in railway connections; ✓ maintenance and reconditioning of diesel traction vehicles, railway rolling stock for freight transport and related services. 		
Mercitalia l	Rail	Integrated systems: Q + E + S	
Quality (Q) Environment (E) Occupational safety (S)	Mercitalia Rail (Headquarters an Scope: ✓ design and provision of free	ight transport services by rail.	

FS Sistemi	Jrbani Integrated systems: -		
	FS Sistemi Urbani (Headquarters) Scope:		
	management, on its own behalf or by appointing third parties, of the company's real		
Environment (E)	estate assets; ✓ real estate development, on its own behalf or by appointing third parties, of the company's real estate assets and other Group companies' real estate assets not functional for railway operations; ✓ planning, development and implementation of real estate development and management processes and urban intermodal systems; ✓ management control activities on the real estate compendium in Salerno used by third		
	parties.		
Grandi Staz	ioni Rail Integrated systems: -		
Environment (E)	Grandi Stazioni Rail (Roma Termini, Roma Tiburtina, Milano Centrale, Venezia S. Lucia, Torino Porta Nuova, Napoli Centrale, Venezia Mestre, Verona Porta Nuova, Bologna Centrale, Genova P. Principe and Genova Brignole stations) Scope: ✓ management of station complexes and development support through facility and energy management services.		
Ferservizi	Integrated systems: Q + E + S		
Quality (Q)	Ferservizi (Headquarters and operating units) Scope: ✓ service management: administration, procurement, real estate sales services, leases and agreements, technical and asset services, maintenance and facility management services for office buildings and hotels, the issue of travel concessions, company canteen services, real estate and legal custody services, printing services, credit management, tax services, correspondence, notifications and document filing.		
Environment	Ferservizi (Headquarters and operating units) Scope:		
(E)	provision of all the activities that the company performs to manage administrative, sale and lease of real estate, custody and safeguarding of real estate and facility services,		
Occupational safety (S)	in addition to group procurement, IT, maintenance and document filing.		
Italferr	Integrated systems: Q + E + S		
Quality (Q)	Italferr (Headquarters and operating sites) Scope:		
Environment (E)			

Occupational	✓ project management, design, contracting management, works oversight and	1 . 1		
safety (S)	supervision and safety coordination for transport infrastructure work and the r	elated		
	interferences.			
Netinera G	up Integrated systems: -			
	Netinera Deutschland			
	cope: ✓ development of the Group's business;			
	*			
	✓ support to the affiliated companies with technical and non-technical services.	support to the affiliated companies with technical and non-technical services.		
Quality (Q)	Netinera Werke			
	cope:			
	✓ maintenance and inspection of railway vehicles in accordance with current G	erman		
	regulations (Railway, Building and Operating Regulations - EBO).			
	DHE			
	 ✓ operating maintenance on electric trains and passenger carriages; ✓ maintenance and inspection of railway vehicles in accordance with current G 	operating manifestance on electric trains and processes carriages,		
	regulations (Railway, Building and Operating Regulations – EBO).			
	Tlexx			
	 ✓ public transport with electric and diesel buses; ✓ operating and heavy maintenance on vehicles at proprietary workshops. 			
Environment (E)				
(L)	Crixx cope:			
	public transport with diesel buses;			
	operating maintenance on vehicles at proprietary workshops.			
	änderbahn			
	cope: ✓ public transport with diesel buses and electric and diesel trains;			
	operating maintenance on vehicles at proprietary workshops.			
Anas	Integrated systems: -			
	anas (Central and Divisions and Regional Units)			
	Scope:			
	✓ planning, execution, monitoring and technical, administrative, legal and fir			
	management of the planning processes for large-scale infrastructural works, ro			
Quality (Q)		works contracting and the related services, works oversight, direct operation and		
	surveillance of the road network, research and the testing of materials and			
	infrastructures using innovative technologies.			

TrainOSE		Integrated systems: -	
Quality (Q)	TrainOSE Scope: ✓ definition of objectives and measurement of delivered service quality EESSTY Scope: ✓ definition of objectives and measurement of delivered service quality		
Safety (S)			
Ferrovie del	Sud-Est e Servizi Automobilistici	Integrated systems: Q + S	
Quality (Q) Occupational safety (S)	Ferrovie del Sud-Est e Servizi Automobilistici (Headquarters and operating sites) Scope: ✓ design and provision of local public road transport services. design and provision of local railway transport services. maintenance of rolling stock. design and management (routine and non-routine maintenance) of railway infrastructures.		