

newable sources and efficient cogeneration made it possible to avoid the production of **3.6 million tonnes of CO₂** and save **1.2 million TOE** of primary energy.

Atmospheric emissions of macro-pollutants, always contained at the lowest possible levels thanks to combustion technologies and abatement systems, show different trends.

Nitrogen oxides, which are present in the flue gases of all types of plant and emitted in concentrations that are always below the legal limits, rose by 26%, due to the inclusion of new companies in the report and increased thermoelectric production. Over the years, the Group has implemented various projects aimed at reducing the concentrations emitted, as described in previous reports. In 2021, a further initiative has been implemented to further contain specific emissions: at the Cassano D'Adda thermoelectric power plant, two catalytic denitrification plants are being built (see box below).

In contrast, sulphur oxides decreased by 6%, due to the decommissioning of coal at the Lamarmora power plant.

The amount of total dust emitted also decreased, across all compartments.

Figure 38 Total Group emissions (t)

	2019	2020	2021
NOx	2,870	2,328	2,928
SO ₂	917	529	495
Powders	56	38	31

In the coming years, the commitment to the decarbonization path already undertaken is confirmed, supported both by the increase in installed renewable capacity and by the production of green energy carriers, such as biomethane and hydrogen (see the description of the projects in the Manufacturing Capital).

AN INCREASINGLY GREEN FLEET

A2A has a vehicle fleet of more than 5,300 vehicles; of these, 2,154 are instrumental vehicles that were already the subject of tenders for their replacement in 2021. In fact, 2 thousand new vehicles have been ordered (332 owned and 1,1675 rented), of which about 60% will go to the *Smart Infrastructures BU*. The development plan calls for about 90% of new vehicles to be introduced by the end of 2022. The new fleet will allow an **important increase in the share of vehicles powered by alternative sources**: about 34% of the fleet on the road will be electric, 24% will be powered by natural gas and about 14% will be hybrid. It is estimated to **reduce CO₂ emissions** by 29% and fuel consumption by 19%. At the same time, investments are planned (around 3.9 million euro) for the technical upgrade of the recharging infrastructure (1,255 recharging points to be installed at A2A sites).

THE NEW NOX ABATEMENT SYSTEM FOR THE CASSANO D'ADDA POWER PLANT

The project involves the construction of two catalytic denitrification (SCR) plants for gas turbine combustion gases. Catalytic abatement systems will be installed within the two recovery steam generators located downstream of the gas turbines themselves. The initiative is aimed at **reducing mass NOx emissions**, in relation to the greater emission contributions deriving from the upgrading of gas turbines and the new natural gas-fired alternative engine plant; these initiatives are part of the new generation capacity sold in the "Capacity market". The SCR project involves an investment of approximately 10 million euro and is scheduled to enter into operation in February 2022.

7.3 A2A commitment to sustainable water management

The Group is aware of the importance of sustainable management of water resources, which are increasingly subject to anthropogenic pressures that result in consumption and alterations to the qualitative characteristics of water.

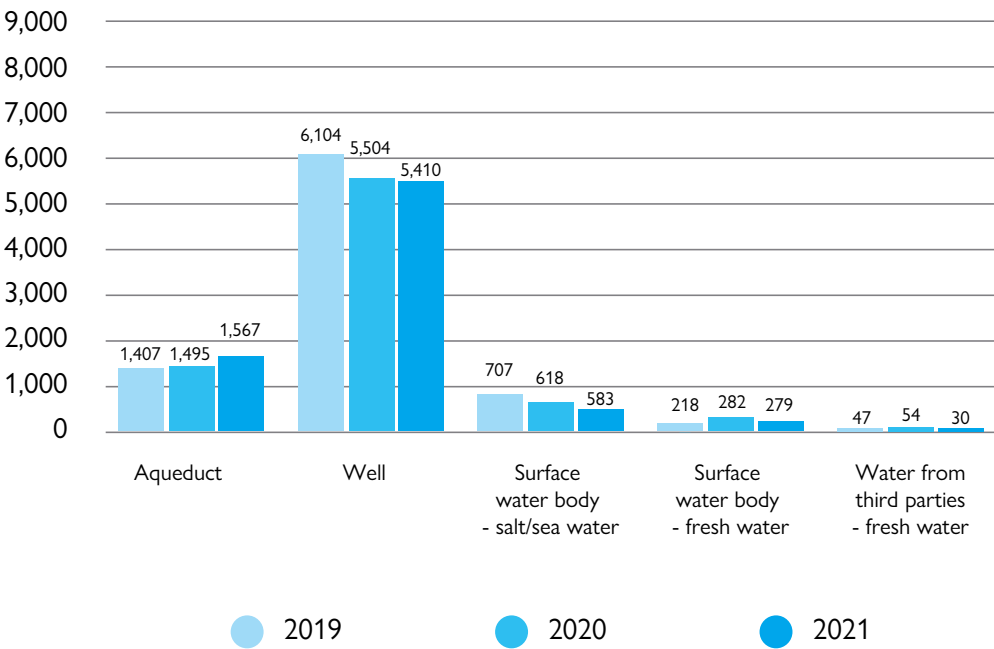
In order to reduce consumption, the Group adopts practices for **the recovery of process water and rainwater**, the latter for the irrigation of green areas, the filling of fire fighting tanks and the recycling of washing water. Cooling water is returned in its entirety to the same water bodies from which it was withdrawn and with the

same quality characteristics, except for a rise in temperature, in any case lower than the applicable limits.

At hydroelectric plants, water used to operate the plants and produce energy is withdrawn in a manner that ensures **compliance with the Minimum Vital Flow (DMV) - Ecological Flow**, to protect river habitats, and is **returned with the same quality characteristics**.

In 2021, the Group's water consumption was approximately 7.9 million m³.

Figure 39 Consumption of water resources by type - (thousands m³)



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A sustainable management of water management of water resources also means maintaining a **greater level of control over water withdrawals in water-stressed areas, impacted** by: scarcity of fresh water available; possible complexity in water extraction and distribution to users; water quality characteristics. Taking as reference the indications of the "Aqueduct" tool of the *World Research Institute*, the plants in Sicily, Calabria, Abruzzo and, for the integrated water service, the network in the Lombardy Mountain Municipalities, located in Valsabbia (BS), were identified as "critical". It should be noted that the classification of water stress area conferred to the Region of Sicily depends on the scarce availability of fresh water; therefore, the salt water withdrawals made by the San Filippo del Mela plant do not negatively impact the availability of the resource. Finally, the classification of Valsabbia municipalities as water stress areas is justified by the fact that water resource withdrawals come from springs, for which a constant availability of water is not guaranteed.

In these areas, there was a **16% reduction in consumption from wells** in 2021, justified in part by

the fact that beginning in the reporting year, ground-water withdrawal at the San Filippo del Mela power plant to supply the hydraulic barrier is no longer considered, as this is water not used for power plant processes. There was also a **45% reduction in freshwater withdrawals from third parties** and a 6% reduction in withdrawals from surface water bodies, for a total reduction in consumption of 10% from the previous year. Amounts of water derived from surface water body of salt and sea water, which are subsequently returned to the withdrawal body, increased by 85% over 2020 due to higher production recorded by the San Filippo del Mela Power Plant.

Withdrawals

In 2021, about 3 million m³ of water, withdrawn from surface water bodies, was used for hydroelectric purposes. The total volume of water released for the DMV shows a 7.5% increase over 2020, for a total of 444 million m³. The increase is justified by the fact that during the reporting year, the experimental projects were completed and the parameters set by the Lombardy Regional Authority changed, to which the plants were adapted.

SPÖEL EXPERIMENTATION

In order to improve tourist enjoyment of the area, experiments along the Spöel River, consisting of scheduled releases of water from the intake works, continued in 2021. Voluntary experimentation by A2A continued in 2021 with the release, during the summer period, of different flow rates from its intake works, for different durations, in order to improve tourist use of the area. In particular, the experimentation adopted in 2021, thanks to the results and the in-depth analysis made possible during the experiments of the past years, allowed to adopt a release modality with variable flow rates through which the constant presence of water along the whole stretch of the riverbed under examination was recorded, for a duration of more than 40 days, thus covering the period of maximum tourist presence from mid-July to the end of August.

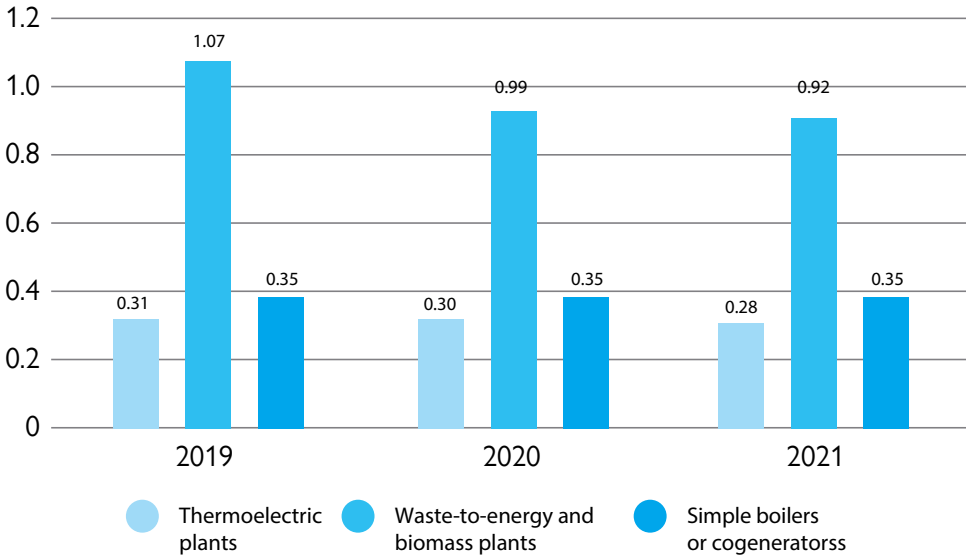
Water consumption by the Generation and Trading BU amounted to 2.9 million m³ of water and was used for process purposes. This quantity is in line with that reported the previous year, despite a 45% reduction in fresh water withdrawn from third parties, thanks to an **optimization of the consumption of demineralized water, obtained through maintenance operations at the Gissi power plant**, which have allowed less water to be withdrawn from the consortium. In addition, over the years, **systems** have been developed to **encourage the recovery and reuse of water in production cycles** in order to reduce withdrawals of this resource as much as possible. In 2021, **approximately 760 thousand m³ of water were recovered in the production cycles of the**

Generation BU, a value in line with that of the previous year.

Salt and sea water derived from surface water bodies (CIS) and returned for cooling uses also increased by 87% over 2021, commensurate with the increased production recorded at the Monfalcone and San Filippo del Mela Power Plants.

For the reporting year, attention was also paid to the water consumption used per unit of energy produced at the Group's plants. The figure for thermoelectric and waste-to-energy plants declined slightly, while the figure for cogeneration was in line with previous years.

Figure 40 Water used per unit of energy produced (m³/MWh)



The consumption of water resources is also a relevant aspect for the cooling of combustion ashes at the waste-to-energy plants, in the other plants of the Environment BU and in the activities for street cleaning, washing of sweeping grounds and vehicles used for services to citizens.

In 2021, there was an increase of 5% in the amount of water procured by the Environment BU, standing at a total of 3.3 million cubic metres of water withdrawn. Of this consumption, 85% is made up of water withdrawn from wells and only 15% is made up of water from aqueducts, in order to minimize the consumption of "precious" water. The increase

in withdrawals for the reporting year was due to an increase in consumption of water from the aqueduct, attributable to the inclusion of Gelsia Ambiente and Agripower in the reporting scope, and an increase in water consumption for the management of AMSA properties.

In the *Smart Infrastructures* BU the water resource is used for the cooling of the stations serving the electricity distribution network: in 2021 withdrawals decreased by 13% compared to 2020. It is also used at the heat production plants for which in the reporting year, process consumption was confirmed at 1.4 million m³, as in 2020.

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Finally, in 2021, there was a 15% reduction in the amount of water derived and returned to the aquifer by the *Smart Infrastructures* BU, used by heat pumps, thanks to the management efficiency of the heat pump at the Canavese Power Plant.

Effluents

With regard to the discharge of wastewater that cannot be reused in the production cycles and that cannot be recovered, the Group guarantees careful monitoring of the volumes discharged and of the relative polluting loads, in compliance with regulatory and authorization requirements.

The Environment BU industrial wastewater discharges increased by 16% compared to 2020, totaling nearly 2.6 million m³. This increase is due to a 17% increase in discharges into surface water bodies, justified mainly by the full operation of the Gerenzano plant, which treats groundwater and leachate, however without leading to increases in organic loads (BOD and COD) discharged into the environment.

The industrial discharges of the *Smart Infrastructures* BU, including those related to the provision of integrated water service, amount to 634 thousand m³, a value increased by 18% compared to 2020. The organic load contributed to the environment remained very modest and amounted to approximately 0.6 tonnes of BOD (-31% compared to 2020); the value

of total COD recorded a reduction of 74% compared to 2020, due to the execution of a greater number of analytical samples at the North Plant of Brescia, which provided a more representative summary of the data.

Industrial discharges from the Generation BU remained in line with the previous year's values.

Integrated Water Service:

The Group also manages the integrated water service in Brescia and its province. In order to ensure efficient management of the service, the priority objective is to maximize water distribution, containing losses and guaranteeing the quality levels of water for human consumption.

Water withdrawal for water distribution, which is done exclusively from wells and springs, was 92 million m³ in 2021, in line with the previous year. The quantity of water supplied was in line with the previous year. The network losses, including unaccounted for water, still represent a significant volume, amounting to 34.8 million m³. However, the program to reduce losses is progressing, achieving, in 2021, a decrease of 3.5% compared to the previous year. Overall, since 2018, the recorded loss reduction amounts to 15%.



Open Innovation
20 km network
inspected with
computer vision

DEVELOPMENT OF WATER SAFETY PLANS AND IMPLEMENTATION OF SMART NETWORK FOR WATER MONITORING

With the introduction of the European Drinking Water Directive 2020/2184, the implementation of Water Safety Plans (WSPs) for water systems has become mandatory. The goal of WSPs is to identify and reduce the risks associated with the distribution of drinking water, both in terms of quality and quantity. In 2021, the WSP was concluded for the municipalities of Bassano Bresciano, Manerbio, Ospitaletto, Pontevico, San Gervasio Bresciano, Verolanuova and for Brescia and the four municipalities supplied to a greater extent by the capital (Botticino, Bovezzo, Cellatica and Collebeato). With the risk assessment approach introduced by the WSPs, a need has developed for a deeper understanding of the quality of distributed drinking water not only at the intake, but throughout the distribution network. In 2021, research was initiated to **identify the optimal sensors for the implementation of a widespread monitoring network for the quality of distributed water**. Monitoring stations equipped with sensors for pH, turbidity, chlorine, conductivity, nitrate, temperature, TOC and the UV-Vis spectrum will be installed at the entrance to each district in the City of Brescia. In addition, small sensors are being sought to be installed directly into pipes, battery powered or self-powered. The planning of sensor installation in the integrated water cycle has also been included in the Group Sustainability Plan.

The Group's commitment to achieving European water resource objectives is also reflected in the operation of wastewater treatment processes. Pollutant loads entering the treatment plants increased slightly in 2021 compared to previous years. Specifically, BOD entering the plants increased by 7% over 2020 (6,441 tonnes), COD by 8% (13,742 tonnes), and phosphorus by 7%. The purification performance was in line with previous years, as shown in the table below:

Figure 41 Purification performance

	2019	2020	2021
COD	92%	90%	91.4%
BOD	97%	96%	94.3%
Nitrogen	68%	69%	71%
Phosphor	77%	74%	76.1%

MOUNTAINHYDRO AND HYDROGEOSITE PROJECTS

Climate change and its consequences on the territories require a new approach in the management of water resources. The current project in Valle Sabbia (BS) is aimed at **collecting geological and hydrogeological data** to identify the best areas where to design and build the intake work for a mutual aid aqueduct. Once the water resource has been identified and all its technical characteristics have been mapped, it will be possible to draw up **Water Safety Plans**, plan and design interventions in a targeted manner in terms of **optimizing new systems with a consequent reduction in both construction and operating costs**. In detail, the *MountainHydro* project will be launched in the Valle Sabbia area and the *HydroGeosITE* project in the lowland area. These two projects will be conducted in synergy with the University of Milan, Department of Earth Sciences "Ardito Desio", that will provide the appropriate scientific support for the geological interpretation of the data collected and the execution of geophysical campaigns on the ground, both in the mountainous area and in the plain. The process of data collection includes hydrological analysis, geological and hydrogeological modelling; the main feature that makes the projects innovative is the new way of mapping the territories with geophysical surveys by helicopter, for more than 4 thousand linear km (about 370 km²) for the *MountainHydro* project and for more than 11 thousand linear km (about 550km²) for the *HydroGeosITE* project. Operations will begin in 2022 and will cost more than **1.5 million for MountainHydro and nearly 2.7 million for HydroGeosITE**. Activities are scheduled to be completed in 2024.

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7.4 Protection of biodiversity

Analyses of potential interference of the A2A Group's activities with the protected areas system continued in 2021, to include plants consolidated into the Group more recently.

The system of protected areas considered concerns the sites belonging to the Natura 2000 Network, IBA (Important Bird and Biodiversity Area) areas, and areas considered important habitats for the conservation of populations of wild birds, nature reserves, natural monuments (individual elements or areas characterized by a particular natural or scientific value that makes them the subject of protection).

From the mapping phase - which is increasingly extended - it emerged that out of a total of 296 Group sites and networks analysed, 105 have potential interference with the system of protected areas, which not only takes into account criteria of adjacency or overlap, but also wider areas of possible influence. Of these 105 sites, 10 are located within protected areas and 6 are networks that have stretches in protected areas.

The following table provides information about these sites and networks.

Figure 42 Group sites and activities with interference on protected areas

Number of directly interfering sites/networks	Activities performed	Interfering area surface/ interfering network stretch length	Type of protected areas
1	Waste management	0.01 km²	Natura 2000 network National network (EUAP)
3	energy production from biomass	0.06 km²	Natura 2000 network IBA National network (EUAP)
6	hydroelectric production	1,144 km²*	Natura 2000 network IBA National network (EUAP)
6	distribution of gas and electricity	619 km (of which 468 km underground)**	Natura 2000 network IBA National network (EUAP)

* The interfering area of the hydroelectric plants refers to the area of the catchment area underlying the Group's plants and dams, which falls within a protected area.
** The interfered surface, intended as the projection on the ground of the overhead lines including the buffer zone and added to the surface of the electrical substations, is equal to 1.5 km².

Following the mapping of the plants and networks, a "relevance index" was developed to measure the degree of potential interference that the activities could have on the ecosystems, due to the proximity and peculiarities of the habitats present in the protected areas. In this way, the most sensitive areas were highlighted.

Starting with these results, but moving in the direction of a broader issue of protection, studies have been launched to identify possible actions to protect biodiversity, in addition to those already implemented at the production sites.

No significant spills occurred in 2021.

Six sites have been identified where it is possible to carry out an intervention, chosen not

because they are directly affected by the activities of the Group but because they correspond to areas subject to protection, of high ecological value and with the possibility of intervention to improve the ecosystems. Pre-feasibility analyses were performed for these areas, leading to the selection of the following interventions for a first phase:

- implementation of a project to protect birdlife in the Alto Garda Bresciano area, an activity that integrates with the interventions planned by UNARETI on power lines (see box below);
- support for the "Migrandata - Cervati" project, aimed at studying the effects of climate change on migratory birds.

PROJECT ENVIRONMENTAL IMPACT

In order to guarantee the monitoring of all the stages of the authorization process for a project and the traceability of the decisions taken, A2A has prepared internal regulatory tools that govern the process that will lead to the realization of the initiative. The entire authorization process is conducted in strict compliance with the requirements of applicable state or regional environmental regulations. The potential direct and indirect environmental impacts of projects (on all environmental components, human health, landscape and cultural heritage) are assessed as part of the Environmental Impact Assessment (EIA) process. All procedures include the preparation of in-depth assessments to verify the potential impact of the project on the environment, which are appropriately made available on the websites of the competent administrations for potential comments from the interested public and are finally submitted for the judgement of environmental compatibility by the administrations themselves. The Group's projects, depending on the type and size of the project, may be subject to EIA verification or directly to regional or state EIA. The national regulatory reference is Legislative Decree no. 152/2006 (so-called Environmental Consolidation Act), while the Regions in turn can regulate, with their own more detailed regulations, the organization and the modalities of exercise of the administrative functions attributed to them in the matter of EIA. A2A's main ongoing proceedings concern EIAs for: projects to convert power stations from coal or HFO to CCGT, new waste-to-energy plants and new OFMSW plants. For further information on ongoing proceedings falling within the competence of the State, it is possible to consult the website of the Ministry of Ecological Transition; for proceedings falling within the competence of the Regions, each Region has its own dedicated web platform (e.g. Lombardy Region).

Interventions on electrical networks for network resilience and bird protection

Unareti, as part of the improvement initiatives to ensure the continuity of the electricity distribution service, has identified several structural interventions of its Medium Voltage lines in the area of the municipalities located between Lake Garda and Valle Sabbia. Part of the interventions has already been implemented, with the replacement of overhead cables with underground lines (for a length of about 30 km) and "Elicord" cables (about 16 km), i.e. made up of a single cable insulated and "reinforced" in a protective sheath. The interventions are prioritized in critical mountain areas in order to make the electricity service more stable and safe, while making the infrastructure of the power grid less impactful from the point of view of landscape and environment: in fact, the "Elicord" overhead conductors will be safer for birds and, above all, the elimination of over 40 km of overhead power line and more than 180 metal supports will avoid the risks of electrocution and collision, while offering an improvement in the landscape.

Overall, between the interventions carried out and planned, about 80 km of bare power lines (corresponding to a ground surface of 0.8 km²) are being decommissioned, replaced by 20 km of new isolated overhead lines and 78 km of underground lines.

These projects, starting from 2022, will be supported by studies aimed at mapping the presence of Eagle Owl specimens, a species particularly at risk and of high naturalistic value, evaluating the risk of overhead power lines on the bird species most at risk and quantifying the benefit of the interventions carried out on the avifauna.

During 2021, interventions were carried out for the removal of piling, in particular in the Province of Sondrio, which allowed an important improvement of the visual impact on an area of particular tourist importance such as the Mortirolo Pass.

Capitale Uomo

Environmental education
5,400 accesses to environmental culture initiatives in 2021

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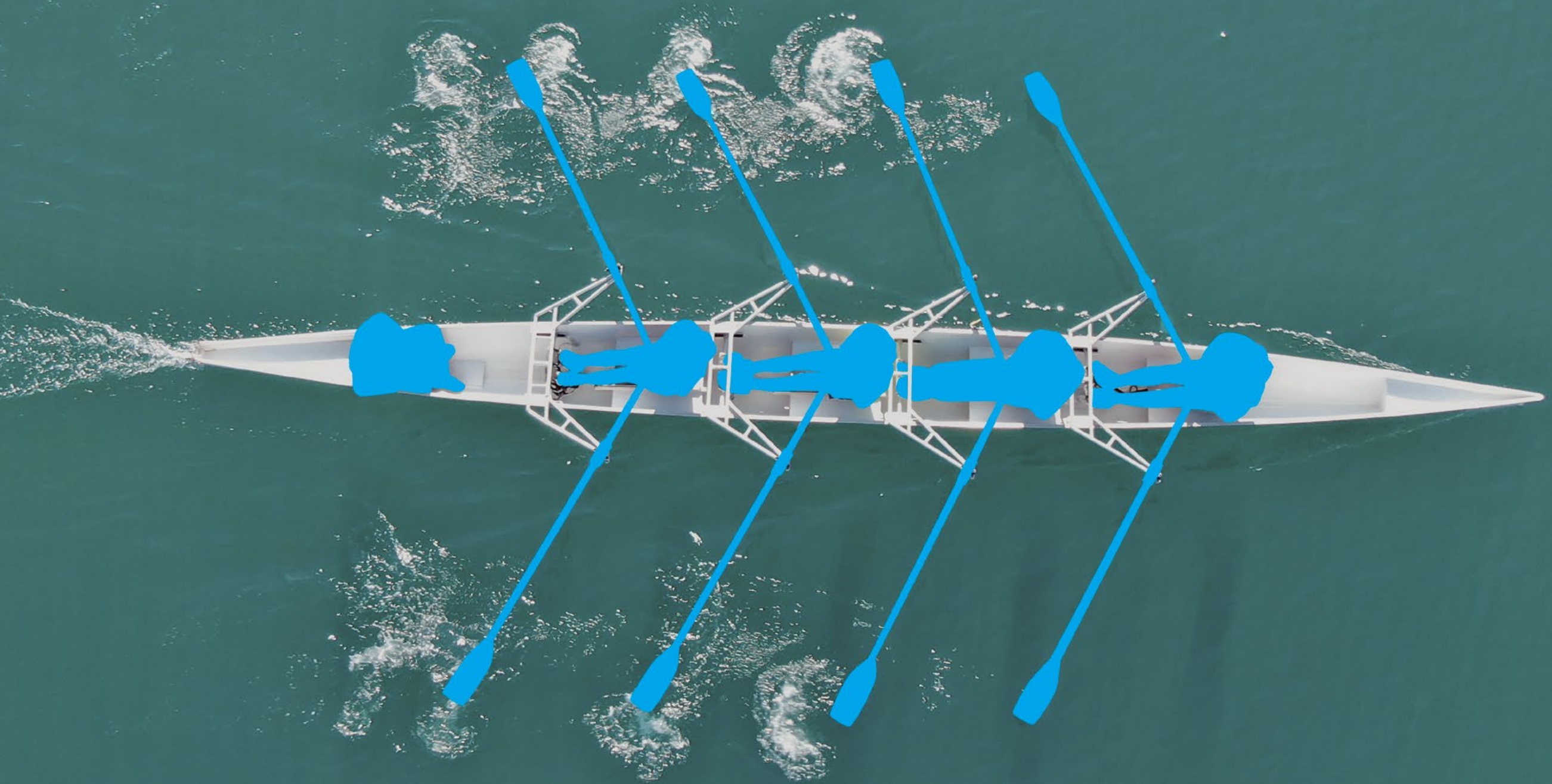
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Human capital

REFERENCE CONTEXT

Developing resilient skills while respecting uniqueness

In 2021, thanks to the vaccination campaign, organizations have been able to reorganize their activities according to new needs.

The main consequence of the decision to bring employees back to the office was the need to ensure adequate work spaces to respect the physical spacing of people. In turn, employees, having tried new work solutions that have helped them maintain work productivity, are asking organizations for more flexibility in hours and the ability to work remotely in order to balance work and private life.

Training has also been reorganized in light of new organizational and logistical needs, allowing workers to stay current or acquire new knowledge and soft skills. Recently, however, the need for "reskilling" has become increasingly pressing: the ageing of the population and the accelerating spread of technological advances accelerate "the obsolescence of human capital." The consequence of these phenomena is that training activities are becoming increasingly important to keep a company's population abreast of the changes taking place.

In addition, within the dissemination and growing importance of ESG issues, there is greater attention to *diversity and inclusion* issues. According to research by *Refinitiv*, the utilities sector has a higher *Average D&I Score* than other sectors (55.69) and Italy is the country with the highest *Average D&I score* (56.65). In addition, research shows that gen-

der diversity on the *Board* implies better financial *performance* and that a positive employee perception of their workplace influences the stock price.

In general, in 2021, and in the years to follow, organizations will need to focus increasingly on employee satisfaction, a factor that influences the organization's economic and financial *performance*. To retain their workforce, organizations will need to implement structured and ongoing employee *engagement* analytics to analyse needs and demands.

PNRR Mission 5 "Inclusion and Cohesion" provides for a total investment of 19.81 billion euro to be divided among the three Components: Policies for employment (6.66 billion euro), Social infrastructure, families, communities and the third sector (11.17 billion euro) and Special interventions for territorial cohesion (1.98 billion euro). In general, the mission aims to support women's *empowerment* and the fight against gender discrimination, increase the employment prospects of young people, rebalance the territories and support the South and inland areas.

The more I think about it, the more I realize how unique my generation is. We are often seen as "demanding" because we want transparency in the marketplace, we are attached to loyal brands, we expect responsible behaviour, and as a result, we reward or criticize such conduct publicly. But what is wrong with considering ourselves priceless? And why should we work for a company that does not recognize the value of human capital? Our skills, abilities and experiences should be protected, cared for and nurtured every single day because, after all, they are the most valuable thing we have.

ANTONIO, 24 years old, Turin

2021 IN FACTS

19.81 OF PNRR INVESTMENTS FOR
billion SOCIAL INCLUSION AND COHESION

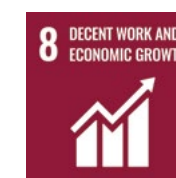
12% EMPLOYMENT GAP BETWEEN MEN AND
WOMEN IN EUROPE

370 OF LOSSES DUE TO THE GENDER
billion euro EMPLOYMENT GAP IN EUROPE

80 MORE EMPLOYED IN THE FOURTH
thousand QUARTER OF 2021 IN ITALY THAN IN
THE FOURTH QUARTER OF 2020

IMPACTS FOR A2A

SDGs IMPACTED



MATERIAL ISSUES

- Occupational health and safety
- Development of human capital
- Diversity and inclusion

STRATEGIC PLAN @2030

50% women among the
Group's new hires
(excluding blue collar workers)

SOURCES

Istat, *Il mercato del lavoro*, 2021;
Refinitiv, *Diversity and Inclusion Indices*, 2021;
National Recovery and Resilience Plan (PNRR);
Women in the labour market / Work-Life Balance, 2021

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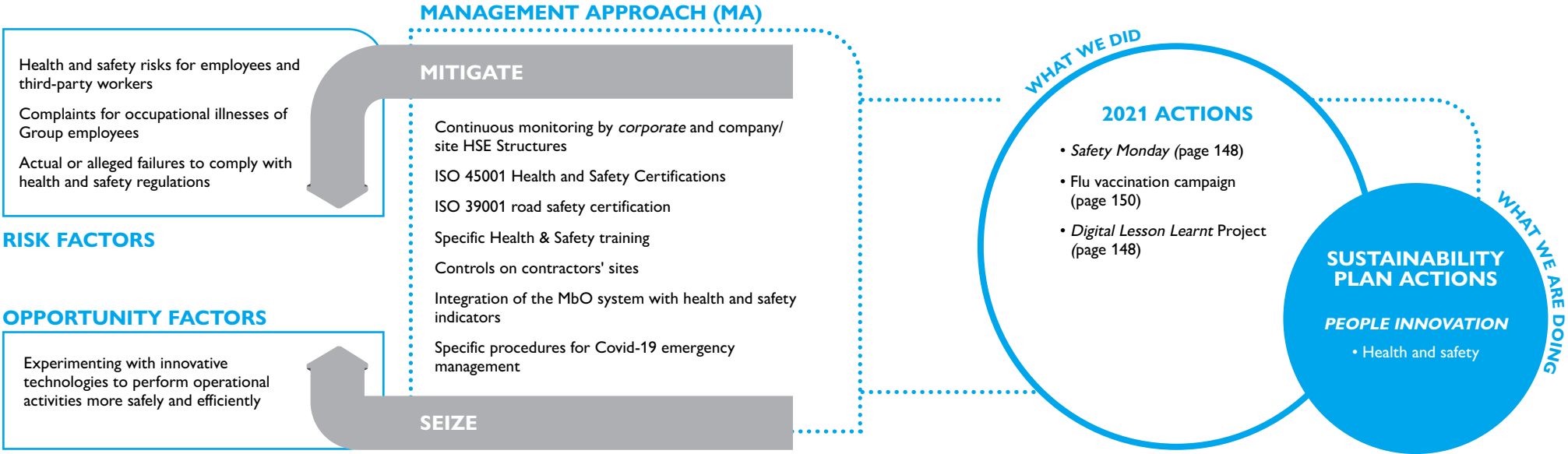
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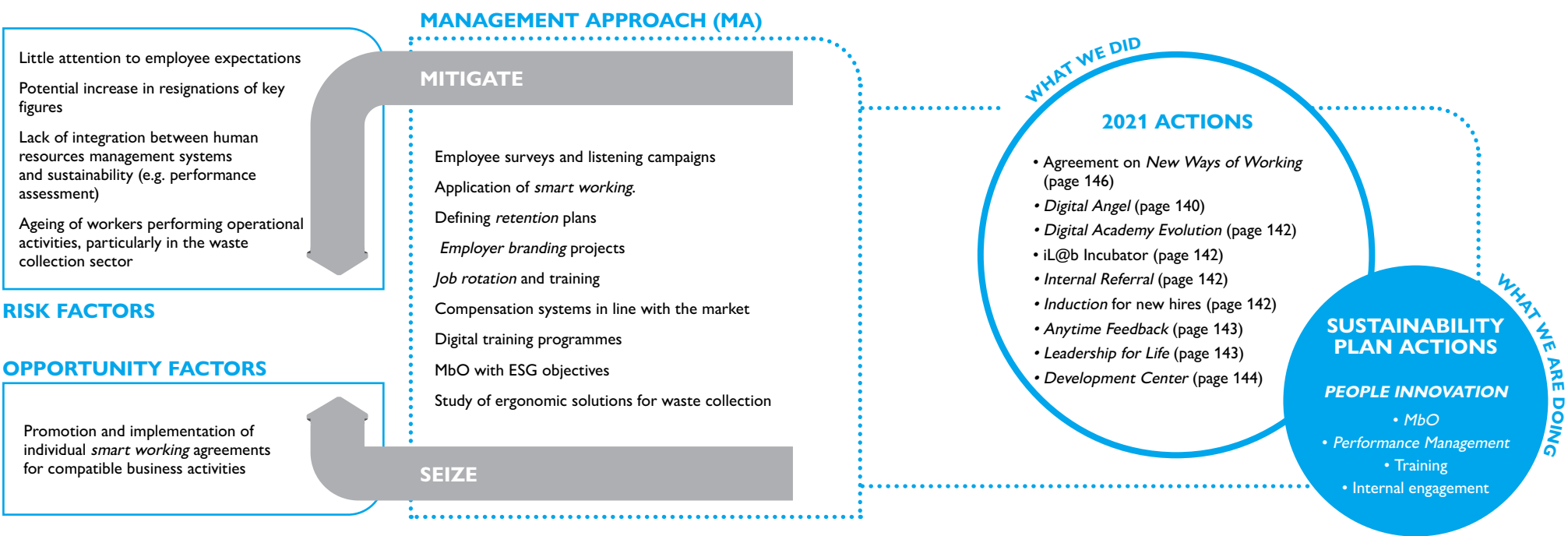
Occupational health and safety

Ensure a healthy and salutory work environment (locations and facilities) for all (employees and contractors) while promoting state-of-the-art work practices and management systems that promote accident prevention (including through training) and accident monitoring and analysis.



Development of human capital

Promotion of professional development and attraction and retention of talents; creation of development and training opportunities aiming to strengthen technical, managerial and organizational skills of employees; activation of structured systems for listening to employees, thanks also to systematic dialogue and collaboration initiatives; promotion of the personal, family and working well-being of employees (work life balance), aimed at improving the reconciliation between private life and work.



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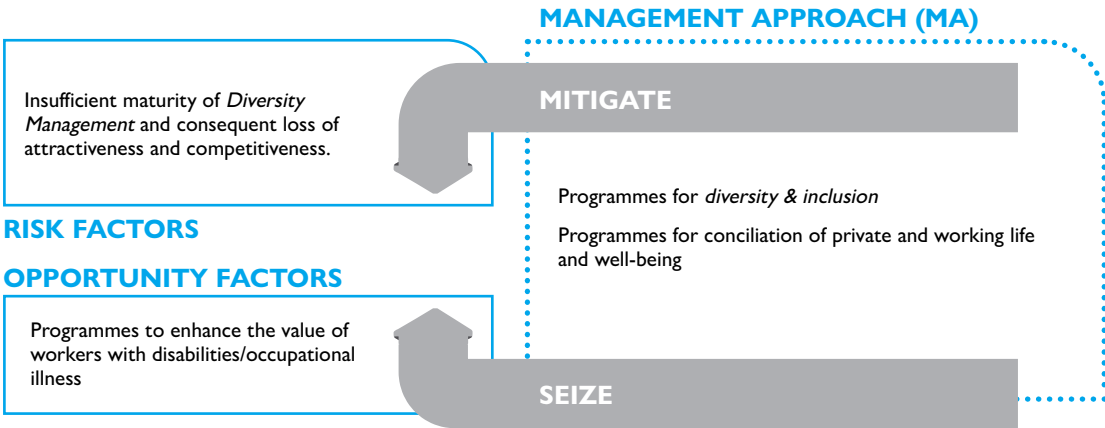
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Diversity and inclusion

Commitment to the development of an inclusive culture and work environment, valuing the principle of equal treatment of all colleagues based on professional skills and abilities. Development and promotion of



8.1 People and their value

Building on Life Company's purpose stated commitment, "Life is our Duty", in 2021, A2A formulated its own *people strategy* with the aim of contributing to the creation of a safe and inclusive working environment based on the involvement of its people to whom it offers a quality experience and a path of growth and continuous development.

The new Strategic Plan to 2030 reinforces the already extensive job placement programme, increasing direct hires to 7,000 over 10 years, increases hours worked in *remote working* and takes into account the development and training in *Sustainable Development Goals*.

8.2 Responsible management of human capital

Responsible management of Human Capital increases the quality of the work and life of the Group's people: for this reason, A2A has always placed them at the forefront of its corporate strategy.

At December 31, 2021, there were 12,370 people employed by the A2A Group (+8% compared to 2020), of whom 2,259 were women and 1,337 were under 30 years old. Job stability remains a prerogative of the Group: 97% of employees have an open-ended contract.

In order to ensure the safety of its workers during the pandemic period and at the same time ensure the continuation of its business, the Group has enhanced the process of **digital transformation** leveraging on *smart working* as a tool of great opportunity, involving over 4,900 people during the year.

This process also included an activity of **digital inclusion** of operations staff, **providing over 4 thousand** people (initially lacking even just a company e-mail) **an A2A digital identity**.

To accompany this transformation as a whole, the **Digital Academy Evolution** has provided almost 4 thousand hours of training to facilitate the spread of digital tools, thanks also to colleagues who have become "**digital angel**". The "**Digital Angel**" initiative identified 50 colleagues who, because of their knowledge of *Office365* and their interpersonal skills, have been selected to support other employees, in an informal way, in the most effective use of digital application tools, promoting new working methods to be spread among the various *teams* of the Group.



an integrated approach to human resources management, through appropriate practices and working conditions to ensure equal opportunities for all employees in all forms.



Recruitment, training and development of people

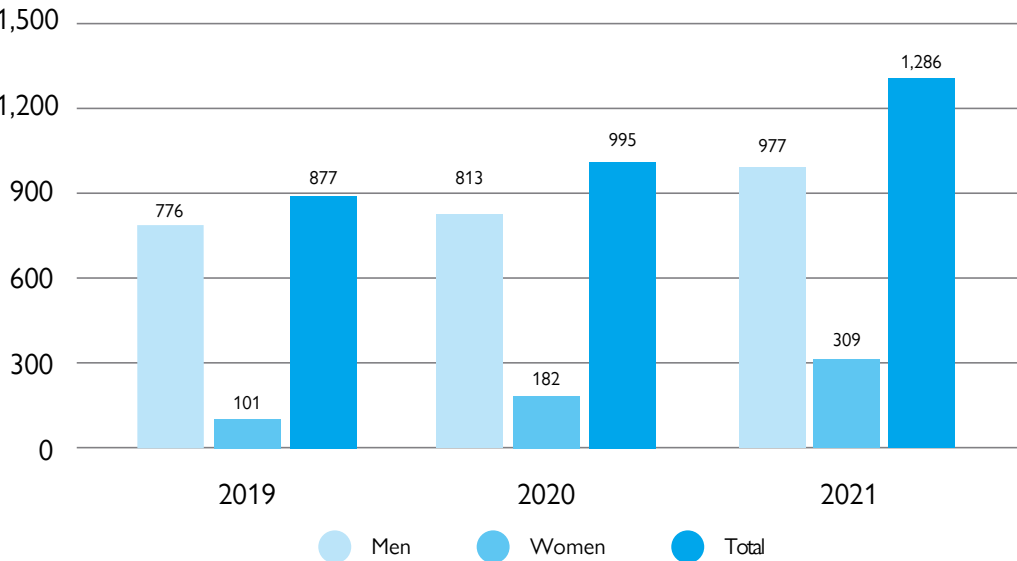
Recruitment

The component that most contributes to giving a company a competitive advantage is the ability to acquire and retain talent. The "*talent acquisition*" differs from traditional recruitment practices (*Recruiting*) for the focus on talents, regardless of the fact that there are vacant positions in the company that require more or less urgent recruitment. An important factor in retaining talent is ensuring that the Group's identity is translated into a positive life experience for employees. During 2021, an **internal survey was carried out** through in-depth interviews with *Executives* and managers of the *People and Transformation* area and Group employees, to identify the strongest aspects of A2A's identity to be communicated to candidates. Thanks to this path, the foundations have been created for future activities

of revision of the A2A careers site and dedicated communication plans on *social media*, as well as in the activities of *Employer Branding* for Schools, Universities, *Masters* courses.

During the year, there were **1,286 new hires**, of which **309 women**, compared to 1,034 terminations, an increase of +29.2% in total hires compared to the previous year. In 2021, the percentage of hires as a percentage of the total workforce is 10.40% and, considering the three-year period, the percentage of female hires as a percentage of the total workforce has steadily increased, reaching 13.7% in 2021. The trend is a confirmation that comes from concrete initiatives, supporting diversity and inclusion, to promote gender equality and opportunity. Among these, was also the update of the selection policy, which specifies that, where possible, the presence of women in the pool of candidates is guaranteed.

Figure 43 Recruitment trends, by gender (number)



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Thanks also to collaborations with Universities, schools and research entities, in the year, 68 internships and 64 apprenticeships were activated. The events with the Universities in fact continued in the form of *virtual meetings*, and through numerous online events held, A2A managers met numerous students, providing them with an orientation on the Group's functions.

Starting in 2020, A2A launched an initiative called "**iL@B Incubator**" with the aim of offering young trainees and interns from the academic world the chance to come into direct contact with the dynamics of the company and the project reality managed by the structure *PMO Pooling* A2A, an internal consultancy structure. The growth path offered is very focused on work experience, also combining the activity carried out in the projects with research and dissemination on issues related to the *practice* and methodological foundations of *Project Management*, thus allowing, already for some of these resources, to find a position in the company at the end of the study cycle. Please refer to Chapter 10 for further details on the initiative.



As of December 2021, the process of **selection and recruitment has been digitalized** with the aim of simplifying the communication flow and making the candidate experience more efficient in the *pre-boarding*. Amsa and Aprica have successfully concluded a project to optimize the processes of *recruiting* and selection with Group's *best practices*.

In order to support and guide employees in reading the opportunities open to them in the A2A Group, a process has been undertaken of **digitalization of the job posting process**. Thanks to digitalization, it is now possible to access directly to the internal management application and consult all open

positions, choose the *Job Posting* of interest and, in the application phase, directly access your own *curriculum vitae* to review your experience and update your data.

After an initial pilot phase in which Young Talent colleagues participated, from 2021, A2A has extended to all employees the possibility of reporting qualified candidates for the Group. The **Internal Referral** has now been extended to the entire Group: each employee can pass on the *mission* and values of A2A outside and inside the Group.

During the year, 62% of the 58 open job postings were filled by internal company candidates.

Training

In 2021, more than 220,000 hours of training were delivered, i.e. 18.26 training hours per capita. Approximately 80% of employees received training during the year, up 10% from last year.

The Group, through the various upskilling and re-skilling activities, encourages the updating of the skills of its human capital, inviting its workers to develop their skills and manage their professional growth.

With a view to developing skills, in 2020, a process of mapping out skills of transversal interest was launched in order to identify possible internal teachers suitable to start **training for the role "in house"**. The added value of this project is certainly the *knowledge sharing* and the provision of training interventions that can be increasingly closer to the specific business needs. To support the "*in house*" training initiative, 7 transversal training courses were created: data *decision making*, basic and intermediate *project management*, basic and intermediate excel course, knowledge of the electricity market and work organization. In 2021, 2,500 hours of training were provided for a total of 218 participants.

INDUCTION OF NEW HIRES

Induction A2A is the Group's onboarding programme dedicated to over 300 newly-hired employees. The 2021 pathway included a kick-off event, aimed at learning more about the Group and its *People Strategy*, with a focus on sustainability and inclusion issues; four webinars with the directors of the Business Units, with the aim of getting to know the main business of A2A; a web-conference on the key competencies of the future, with moments of interactive surveys in which the new hires were able to reflect on which skills they would like to train and on which they feel strongest. Newly hired under 30 graduates were also involved in a parallel course of self-empowerment structured in 10 stages, with the aim of creating a plan of development actions together with their own direct Manager.

For example, to explore the issues related to *project management*, was the development of the project **PM Academy Program** delivered by the internal structure *PMO Pooling*; the training programme aims to provide participants who work in the company's project contexts with all the theoretical and methodological foundations recognized by the *best practices* of the market and tested/used on the project in A2A by the *PMO Specialist*. In 2021, 124 hours of classes were delivered, 128 colleagues were trained, and a *Community* has been active since July 2021, with about 150 registered colleagues.

As in previous years and in line with the Group Digital Plan, part of the management training was dedicated to developing the digital skills of employees. The **A2A Digital Academy project**, i.e. the course dedicated to raising awareness of the issues of digital transformation, has been enhanced with new content. Compared to last year, **three new issues** have been developed related to the *Digital Plan* (*Smart collaboration & Virtual communication, Digital Mindset and Knowledge Networking*) and **new in-depth analysis were integrated of the issues already proposed** in 2020 (*Customer Experience & Customer Centricity, Data Driven Analysis & Decision Making, Cybersecurity*). During each meeting there were **opening Webinar Talks** with external experts, various **digital content** also of experiential gaming, **Webinar Talks** with internal and external experts in round table mode and a final experience dedicated to give voice to the participants. The initiative has been realized in collaboration with *Talent Garden*. *Digital Academy Evolution* has allowed to train more than 1,300 employees who have carried out more than 6,280 hours of training, and to involve more than 27 external and internal experts in the Group.

From March 2021, the following e-learning course is available to all Group employees **"2030 Agenda and the Sustainable Development Goals"** created by Asvis - Italian Alliance for Sustainable Development. Thanks to this initiative, it is possible to learn about the new global framework for sustainable development - defined by the United Nations in 2015 and covering all dimensions of human life, which is also the foundation of the Strategic Plan 21-30. The training project has currently trained more than 470 employees and provided over 1,420 hours of training.

Activities continue, with a further two editions completed in 2021, of **professional technical training**

Lean Six Sigma Green Belt, the training and certification programme for selected colleagues on the Lean philosophy and methods to support the evolution of the Operational Excellence programmes into a "widespread system", creating "points of reference for continuous improvement" within the various companies and structures, which carry out the continuous improvement projects required by the various businesses.

Continuous improvement activities according to the "*Lean*" philosophy also involved colleagues from LGH Group companies. 5 projects have been completed using Lean methods and tools independently with internal coaching. The projects focused on the standardization of network measurement systems, the optimization of maintenance processes on gas meters, the optimization of document management in the field of waste management, the redesign of some key processes in the field of *lean integration managing assets*.

People Development and Talent Management

The **"Leadership for life"** course started in 2021 and it is dedicated to about 1,100 *managers* of the Group, which includes 9 online meetings dedicated to *leadership* and its evolution in a rapidly changing context. The course proposes some key contents for the *People Strategy* and more generally for the Business Plan: 3 meetings dedicated to sustainability, circular economy and energy transition, and 6 concerning the *leadership* in a broad sense. Even the Group's new managers have embarked on a programme designed to train them in the skills they need to manage their managerial roles, both in terms of decision-making and in terms of people development. During 2021, 177 colleagues participated in this training.

After an initial pilot project phase that ended in late 2020, which involved the *People and Transformation Department* (about 800 people), a new feature was implemented on the internal platform *Smart People*, **"Anytime Feedback"**, which allows to exchange *feedback* between managers and collaborators, and between colleagues, with the aim of fostering a culture of feedback within the Group. It is possible to send both spontaneous feedback or make a request for feedback, both public and private. The project involved around 29% of the company's population, representing a key moment in the relationship between manager and employee, allowing concrete development actions to be set up.

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FROM YOUNG TALENT TO DEVELOPMENT CENTER

The *Young Talent* programme ended in 2021, a path in the field of talent management of training, listening and engagement actions, which has involved almost **300 young people** under 35, graduates and with potential within the Group.

The final phase of the program included a new "**Development Center**", which had the objective of accompanying the participants in the development of their own development plan personalized on their characteristics and attitudes. The path is individual, with stages in groups, and experienced in the key moments with the guidance of the related direct manager and HR business partner of reference. In addition, 6 sessions of "*Group Coaching*" on individual development issues were organised with the support of expert coaches, and at the end there will be a follow-up with the aim of addressing some reflections and expectations regarding the skills acquired and the future development path of the participants.

The initiative allowed for a data-driven snapshot of the characteristics of the target population to be established in order to make objective decisions about their development.

Internal communication

In 2021 was the continuation of A2A's commitment to listening to and involving all employees in relation to the values of the *Life Company* and the challenges contained in the new Business Plan launched at the beginning of the year.

The path of sharing and engagement was based on different communication and information tools: a site of cascading with videos and in-depth materials on the objectives of the Plan, the distribution of leaflets for the involvement of colleagues engaged in the most operational processes and the publication of various *news* throughout the year to support the storytelling of the Group's strategic projects.

In addition, a new *format* called **A2A Talk was launched**, which consists in streaming from operating sites or plants, as a moment of dialogue with the Top Management and enhancement of processes and assets of the Group.

In 2021, **activities of listening to and understanding the needs and opinions of colleagues have also been strengthened** through surveys aimed at providing guidance on specific issues, such as: agile working (2,550 respondents), services offered to employees (over 2,000 respondents), people's engagement with work, relationships, the company and its values (almost 4,000 respondents).

Welfare

The Group is committed to promoting the well-being of its people and organization, both at work and in the family, developing a culture of well-being and improve the reconciliation between private and professional life.

In 2021, the activities of welfare focused on the **mapping and developing services** on the **organizational, family** and **well-being** aspects of people.

AMBIENTIAMOCI

With the "Ambientiamoci" project, the Group has devised a path to **encourage the continuous growth of a culture of environmental issues** among its employees, in order to increase their awareness of the possibility and importance of playing an active role for a cleaner and more sustainable world, according to a responsible and informed approach, so that attention to the environment and sustainability can become pillars of everyone's personal and professional *modus operandi*. Ambientiamoci is also an opportunity to explore the environmental issues related to the *business* and activities of the Group, with seminars held by experts in the various sectors. In 2021, three webinars were organized attended by nearly 1,800 colleagues.

Meteorologist and climatologist Luca Mercalli addressed the issue of climate change due to global warming, while marine biologist and CNR researcher Paolo Domenici discussed the effects of these changes, particularly the increase in sea temperature, on living organisms. Engineers Sabrina Sorlini and Giorgio Bertanza, full professors at the University of Brescia, illustrated the water cycle from supply to purification and return to water bodies. All the talks aroused considerable interest and there were many questions addressed to the speakers by the participants, as well as ideas and suggestions collected for the continuation of the initiative, which for 2022 will include new webinars on circular economy, energy and biodiversity.

Service mapping and development

In July, the Energy Area Recreation and Cultural Management Board was created, consisting of company and employee representatives. The Board is in charge of developing the recreational and cultural activities of the energy area, directing the activities of the CRAL and the "*Welfare Platform*" as well as other functions of a more specific nature, useful for the implementation of welfare programmes.

Family environment

Among the various measures aimed at supporting families, there is the **daycare and nursery school** at the headquarters in Brescia available for the children of the Group's employees and those of other affiliated companies. During 2021, there were 34 children of employees enrolled in daycare and nursery school. Moreover, in collaboration with Proges, A2A has organized a cycle of *webinars* dedicated to people who want to inform themselves and discuss aspects linked to parenting and education.

Well-being

During 2021, in collaboration with the IEO-Monзино Foundation together with *SmartFood IEO* and in partnership with the HSE structure, the path continued that, through webinars and informative materials, promoted the **dissemination of scientific knowledge in the field of nutrition** in order to combat misinformation and induce an informed food choice, promote health, prevention

and greater attention to lifestyles. In collaboration with LILT Milan Monza and Brianza, a further path of scientific dissemination has been consolidated that, through webinar and information materials, has had as its objective **raising awareness among people on the importance of primary prevention** as a useful tool to fight the onset of cancer diseases, risk factors and the promotion of healthy lifestyles.

The Group has also confirmed the possibility of **converting the result bonus into a welfare credit** for 2021. The initiative allows increasing the purchasing power of employees, allowing them to choose services and benefits ranging from reimbursement of expenses for the education of children to babysitting, from gym subscriptions to health and home care for elderly relatives. In continuation with previous years, the Group offered an additional share of 15% of the amount converted and spent. The programme is managed through a dedicated portal with five main areas: family, health, savings, free time, well-being.

Moreover, the **healthcare system**, created through a shared pathway by the A2A bilateral governing body is also available for 2021. The system was designed to provide an immediate and concrete response to Group employees and their families by offering supplementary benefits to the National Health Service. In its second year, the initiative involved about 5,200 member employees who covered about 4,000 family members.

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Trade union agreements

Relations of all A2A Group employees are regulated by National Collective Bargaining Agreements (“CCNL”).

In 2021 too, multiple trade union agreements were stipulated, divided into those of a transversal nature to Group companies and other specific ones of some realities. The following are the main ones:

- **agreement on the New Skills Fund:** a cross-sector agreement was signed for the environment and energy areas in order to provide access to the fund's benefits, with a view to launching training initiatives aimed at enhancing employees' skills, particularly in the areas of energy transition, sustainability, digitalization and organizational development;
- **Group Result Bonus:** Three-year agreement signed for the Energy Area, for the first time reference is made (in addition to historical indicators) to EBITDA of the *Business Unit* and raising to 100% the possibility to opt for the use of the bonus in goods and services. In the Environment Area, an agreement was signed that defined the path of discussion aimed at harmonizing the different regulations currently in force in order to reach a new agreement of the *Business Unit* valid for the three-year period 2022-2024; in this direction, this agreement has also defined a series of substantial guidelines already implemented in the bridging agreements relating to the year 2021;
- **agreement on the integration of the A2A and LGH corporations:** an agreement was signed relating to the corporate merger by incorporation of Linea Group Holding S.p.A. into A2A; at the same time examination of the timing and procedures for the takeover of A2A's shareholding of the Business companies with reference to the merger of the same into the *Smart Infrastructures* and *Environment BUs*;
- **agreement on New Ways of Working for the Energy Area of the Group:** the agreement introduces a new model of smart working for over 3,300 people developed starting from the experiences gained during the pandemic period, as well as from the continuous listening to workers: a fundamental tool for reconciling personal and professional life;
- **agreement establishing the Bilateral Body for Culture and Leisure Services:** a new structure of governance of cultural and recreational welfare services in the Energy Area, through the establishment of a joint bilateral body made up of the company and trade union organizations;
- agreement to update the economic values of the **"Harmonization" and extension of leave entitlements:** improvements are made to some

of the arrangements for leave and support for parents, and the economic conditions for travel expenses are updated.

A2A invests in the development and consolidation of a constructive and responsible system of industrial relations, with the aim of achieving the energy transition while guaranteeing the employment of its workforce, thanks to consolidated relations with trade union organizations based on meeting and dialogue.

The Group has faced problems with its workforce in the past, for example with the cessation of operations at the Brindisi coal-fired power plant or the demand crisis in the years 2015-2017 of CCGTs. Measures have been agreed with the trade unions to ensure continuity of employment and safeguard workers' pay levels, making reference to various operational tools, such as outplacement support packages, retraining and early retirement plans, social shock absorbers, and many others.

In addition, A2A and the trade unions reached an agreement on the management of the current suspension of production at the Monfalcone coal-fired power plant, drawing up a series of guarantees for staff pay levels covering the period up to the start-up of the new plant.

Remuneration

A2A pays its employees salaries that are consistent with market standards and with internal remuneration practices that guarantee an adequate level of both external competitiveness and internal fairness. In defining the type of contract and salary, A2A complies scrupulously with Italian legislation, which excludes any distinction of gender in remuneration.

The Group's remuneration policy is **mainly conceived to acknowledge and optimize the commitment, constant achievement of results, competences and behaviour of employees** in line with the Group's Managerial Model and to guarantee the correct remuneration positioning of people in connection with their duties, in line with the Group's Professional Model.

To implement the above, beginning in 2021, compensation analyses were explored to:

- understand gender pay gap phenomena;
 - compare - in more detail - the remuneration structure of employees with respect to the external market, in relation to the activity carried out.
- In particular:
- under the gender pay gap, the differences between women's and men's salaries were com-

pared, for the same level of job, with respect to the external market and, based on the results, a number of actions have been launched that will lead to a reduction in the gender pay gap over the next few years with the aim of eliminating the gap in 2026;

- in the area of employee compensation, compared with the external market, a remuneration benchmark was launched on the entire non-executive population aimed at comparing the A2A Group's remuneration with the external market with the same band complexity (position) covered and with specific references to differential markets for particular professional families or

roles that have become increasingly "critical" in the labour market. Objective of this benchmark is to identify, for any specific families and/or roles, targeted remuneration practices to be adopted in the processes of compensation, recruiting and talent management as well as building ad hoc retention packages for the most exposed roles in the market.

The table below illustrates the differences in average female/male pay within the different job categories. The differences, of slight entity, are explained by phenomena of turnover and/or acquisitions of new companies within the Group.

Figure 44 Average salary of men/women by category in Italy

Category	2019 Men/women	2020 Men/women	2021 Men/women
Managers	103.4%	97.7%	104.1%
Middle Managers	95.4%	94.4%	93.0%
White-collar workers	91.3%	90.5%	90.3%
Blue-collar workers	96.4%	95.2%	95.1%

For all employees, remuneration is structured into fixed and variable monetary components and provides for a package of benefits in support of income or similar such additions (medical and social security insurance, projects and initiatives for employees and their families, promotions and benefits of various types). The variable monetary component is based on systems of a direct connection between company performance and individual performance (“MbO”) or on discretionary mechanisms for the recognition of working performance and conduct in terms of “one-off” bonuses.

The MbO process confirmed the importance of formalized incentive processes in increasing the closeness of employees to the Group's objectives (for example, employee participation and active involvement in *stakeholder engagement*) and incentivizing each worker towards the achievement of company results. In line with the A2A People Strategy, the progressive extension of the perimeter of people involved continued, reaching around **100% of managers, 38% of middle managers and 3% of white-collar workers** and which will continue further in the coming years.

Consistent with the challenging energy transition objectives of the A2A Business Plan, alongside the standard incentive plans, extraordinary incentive

plans have also continued, increasingly focused on the sale of energy efficiency and e-mobility services and which will be further focused in 2022 on the sale of "green" energy.

The variable remuneration system is also supplemented by a collective incentive tool (*results bonus*), which is based on Group productivity and profitability goals, aimed at guaranteeing the involvement of all staff, including those not assigned MbOs, in company performance. In line with current legislation and following an agreement with the workers' representatives, also in 2021, all employees were given the opportunity to convert part of the performance bonus into services through a special welfare platform. The results achieved were positive in line with those of the sector.

Finally, to strengthen the commitment to sustainability, in 2022, it was decided to increase the weight of sustainability goals across the entire front line of the General Manager, also assigning common, cross-cutting KPIs geared toward **reduction of accidents, reduction of emissions and improvement of DE&I indicators** (in terms of: increasing the % of female *managers*, increase in the presence of women on the Boards of Directors of subsidiaries and affiliates; increase in the % of women hired).

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8.3 Occupational health and safety

The implementation and internal verification of **Health and Safety Management Systems** covers **99% of the company population**, all activities and all workplaces of the Group. This system has been audited by certification bodies and certified as compliant with the relevant standards.

The effectiveness and improvement **of the health and safety management system** is guaranteed by the feedback of the Group's workers by proactively reporting dangerous situations or areas for improvement through the channels made available by the company and, above all, by carrying out their activities in compliance with the provisions of the company's rules and regulations.

During the emergency phase, **compulsory training** activities continued in compliance with current legislation, through the provision of courses in live mode via webinars for all employees equipped with company devices, with a constant search for interactive teaching methods. When allowed, face-to-face courses were reactivated in total safety through the timely application of the shared protocols required by current legislation.

Safety at work

The application **ARIAL** (Environmental and Labor Risks Application), guarantees the **monitoring** of aspects relating to safety at work and the environment. ARIAL allows the creation of **risk assessment documents** with the possibility of highlighting the initial risk level and the residual risk level following the application of the specific prevention and protection measures are evident, with a clear and traceable approval process; the system also allows the management of PPE, safety training and health surveillance, as well as the management of chemical products and controls

on safety-critical equipment. The tool is also used to **record and classify unsafe conditions and accidental events reported by workers** (accidents, near misses and injuries to employees and third-party workers), a classification that is made according to a level of severity based on the potential and/or actual effects of the event.

In view of the complexity and frequency of regulatory updates during the emergency period, an **archive of HSE obligations** applicable to the Group's companies has been created and made available to HSE structures and employers, where the relevant extensions and deadlines are tracked.

Safety Monday continued in 2021, an initiative that aims to promote a true culture of safety, tackling specific issues that may affect work activities in an agile manner, using unconventional communication systems and languages that also affect the emotional sphere, a fundamental element for modifying unsafe behaviour. Publication on the Intranet occurs every first Monday of the month for a new stage in the journey to safety.

In 2021, the **"Digital Lesson Learnt"** project was initiated. It aims to introduce digital and innovative methods in the management of the communication of the results of the analyses carried out on the main accidents that occurred in the Group, to improve the effectiveness of the activities of dissemination of the culture of Safety. Each year, a number of relevant events that cut across all the Group's activities will be identified and transferred to video, making them available to the HSE structures of all the companies for the management of **moments of discussion aimed at raising awareness of safety issues, also involving contractors**.

During the year, together with the *Supply Chain structure*, the project **"HSE from Procurement"** was initiated. The activity stems from a need identified during the process of defining the HSE Vision and, in particular, the fact that operating activities are increasingly entrusted to third-party companies, with so-called high potential risks from the accident point of view, and with a relevant impact from the environmental point of view. This presupposes the need to entrust these activities to contractors who have a sufficient degree of reliability from the point of view of the management of environmental aspects and safety at work. This makes it necessary to establish

a series of specific elements throughout the procurement management process in order to properly oversee, from the HSE point of view, the entire process of entrusting to contractors.

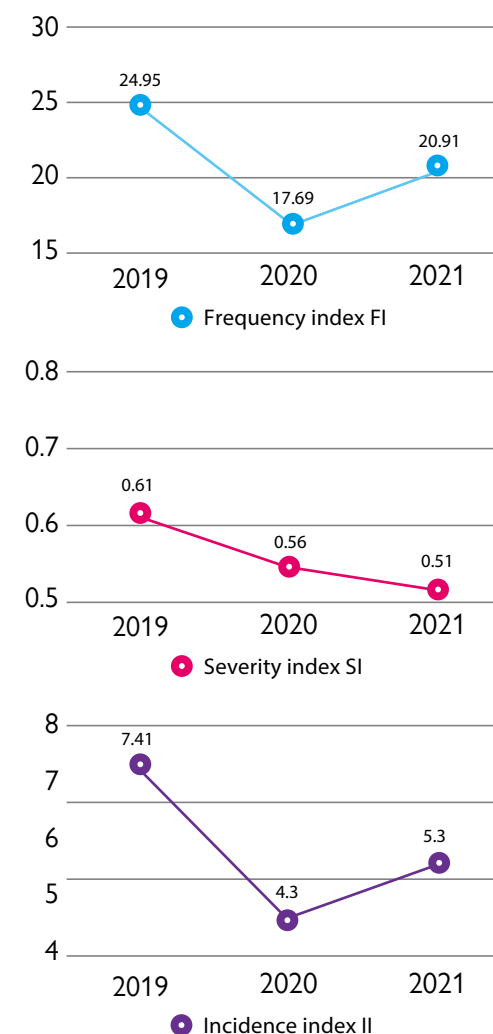
In 2021, the frequency of injuries increased by 18.2% compared to 2020. If instead we compare the data with the trend in place before the onset of the Covid emergency, there was a consistent improvement of 16.6% in the frequency index and 16.4% in the severity index.

The "one year injury-free" initiative continues in 2021, as part of the *"Leadership in Health and Safety"* programme and involving more than 2,000 colleagues of the *Smart Infrastructures Business Unit* who are committed every day to adopting virtuous behaviour and carrying out their activities in compliance with the provisions of the company rules and regulations. The goal of the initiative is to achieve 365 injury-free days. The Network Engineering and Operation team of A2A Calore e Servizi has made it: one year without an accident.

During the year, the main contractors and suppliers of the business of the networks were involved in new campaigns to raise awareness of sustainability issues. The main pillars have been the organization of a **corporate event called "Supplier Day"** and an intense **campaign of inspections (Safety Walk)** at the sites. The event "Supplier Day" was the occasion for management to share the objectives of the new business plan 2021-2030 and the Group's ongoing commitment to health and safety. While the *Safety Walk* campaign was created with the aim of intensifying the inspections by top figures (principals or persons in charge of works) with the intent to create an action of communication and *commitment* both towards the inside and towards the suppliers.

During 2021, there were 42 injuries involving contractor workers, including one fatality that occurred when an employee of a third-party company collided with the contractor's operating machine during excavation operations. Although the A2A Group's involvement and responsibility were immediately ruled out, in accordance with company procedures, an in-depth analysis was carried out to identify the contributing factors and specific improvement measures to exclude the possibility of such events recurring. This translates into a frequency index of 9.3 and a severity index of 2.03.

Figure 45 Accident indices



Health at work

The Group constantly monitors, through health monitoring, the health of workers in relation to the specific risk for the various tasks present at the workplace. The health protocol is a set of instrumental and laboratory tests and examinations, the frequency and content of which are established by the Group's doctors with the guidance and coordination of the Health Unit and according to quality standards shared with university structures. Clinical examinations are performed primarily by outside facilities.

The health surveillance service is offered mainly in the approximately **65 medical units** distributed throughout national territory, and with authorised external facilities. In 2021, more than **7,703 medical examinations** of fitness for the job and **13,497 checks** were carried out in accordance with health protocols. The appointed physicians also carried out more than **134 site inspections** at the workplaces.

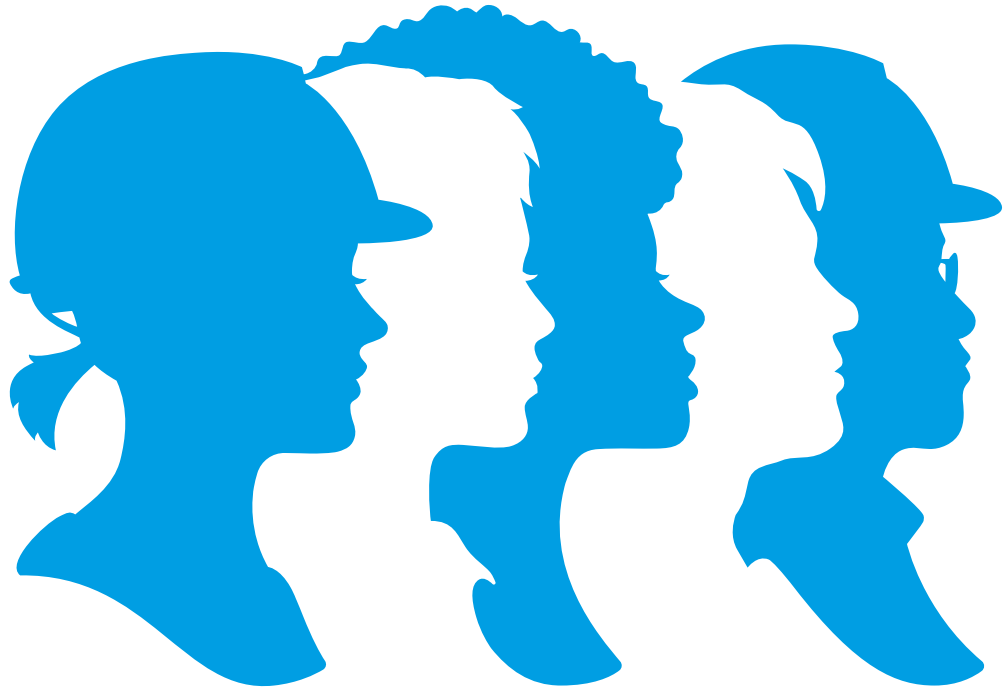
At December 31, 2021, there were 16 cases of occupational illnesses recorded by the Group, the

main types of which included hearing loss, diseases of the osteomuscular system and asbestos-related illnesses.

Health promotion initiatives continued during the year. Among the various initiatives proposed in view of the spread of the Covid-19 pandemic, an initiative was conducted to encourage adherence to the vaccination campaign through the creation and dissemination of a film entitled "Nobody Excluded", which had over 800 views.

The **flu vaccination campaign** was repeated and also this year all workers who requested it were able to get vaccinated. A total of 1,608 vaccinations were administered in 2021.

Starting in the second half of the year, we made available to our workers Capsula, a health-pod (a cabin) that through some measurements allows the self-assessment and empowerment of the overall state of physical fitness, the degree of resilience to stress, the state of cellular ageing and dietary style. Over 2,000 accesses have been recorded to date.



8.4 Diversity and inclusion

The Group's approach to diversity and inclusion is based on the principles of integrity and protection of the individual within the work environment, ensured through the Code of Ethics, the Human Rights Policy and from 2021, the **DE&I Declaration of Commitment**. Through these two documents, A2A undertakes to guarantee its employees a climate of mutual respect for the dignity, honour and reputation of each individual, preventing insulting, discriminatory or defamatory attitudes and openly condemning any mobbing, harassment of any kind or unjustified attempts to hinder the professional prospects of others. Within the Group, anyone who believes to have been subjected to harassment and/or discrimination may make a report, which is promptly taken into consideration and assessed.

Inclusion Team

As evidence of the Group's commitment to promoting an increasingly inclusive working environment free from stereotypes, in 2021, A2A launched a **call to action** for the creation of a working group dedicated to D&I issues with the aim of defining the strategy, objectives and actions in the areas of Culture, Gender, Generations, Sexual Orientation and

Gender Identity and Disability. The Working Group consists of more than 60 colleagues with diverse backgrounds, levels of seniority, gender, skills and corporate roles, guided for each topic by an HR and a *Sponsor* identified in the Steering Committee.

The *Inclusion Team*, after having taken part in a training course, defined an *action plan* for the different themes, to be implemented during 2022.

In addition, in 2021 awareness-raising initiatives were launched for A2A employees. In particular, two e-learning courses were provided with the aim of launching an initial moment of awareness of stereotypes/unconscious bias and on the subject of gender harassment. In October, A2A joined the initiative "*4 Weeks 4 Inclusion*" (*#4W4I*), which involved more than 180 companies that decided to form a network in order to promote the culture of inclusion and the enhancement of diversity. For the occasion each employee was able to take part in 4 events from those available in the programme, including the event organized by A2A called **#rispettiAMO**, inclusion and respect are precious resources.

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Gender diversity

With reference to the adoption of measures to promote equal treatment and opportunities between genders within the entire corporate organization, A2A has for years implemented structured initiatives to favour gender inclusion.

A2A's commitment took the form of the **signing at the end of 2021 of the "Women Empowerment Principles"**, a declaration of programmatic commitment in 7 principles, defined by the *UN Global Compact* and the *UN Women*, to promote women's employment and gender equity as a factor of innovation and growth for companies and **the adhesion of the CEO to the network of Valore D - G20 EMPOWER Advocates**, a global network of CEOs committed to the forefront of promoting diversity and female talent in business.

Figure 46 Women in business

2021	
Women promoted during the year (out of total promotions)	29.3%
Women in ICT functions	27.7%
Women in Engineering	20.2%
Women in entry-level positions (out of total entry-level positions)	46.0%
Women in managerial positions (out of total managerial positions)	23.1%
Women in junior managerial positions (out of total junior managerial positions)	24.4%
Women in top management	25.3%
Women in managerial positions with cash-generating functions	36.0%

Once again this year, the Group was included with a higher score than last year in the **Bloomberg GEI** index that takes into account companies that have a transparent approach to practices and policies of inclusion and gender. Specifically, GEI measures gender equality based on five pillars: female leadership and *talent pipeline*, equal pay and gender pay equity, inclusive culture, anti-harassment policies, and advocacy activities towards women.

The Group is also committed to targeting technical professions and breaking gender stereotypes for a more inclusive work environment. Since 2018, A2A has been involved in the *Elis Sistema Scuola Impresa* project, aimed at training young people and creating the human capital of tomorrow's country, with specific attention to girls and their access to professions in male-dominated sectors.

As of December 2020, there are 21 *Role Models* identified that work in the technical field. In 2021, after an initial training moment, our colleagues implemented online *Inspirational Talks* at schools, reaching approximately 788 students; meetings scheduled for the first half of 2022 are also being planned. *Role models* are people who motivate and encourage people to follow their own inclinations, to become what they want to be, inspiring young people to make a difference, to overcome their limitations and to think big about their future.

A mentoring pilot project was also launched in 2021; it is dedicated to a small group of *managers* (guaranteeing a gender balance) and provides for Mentor-Mentee interaction to support and guide the improvement of professional performance in growth and key steps in the life of the company.

To raise awareness and prevent violence against women, A2A also dedicated the month of November to various initiatives, including: a meeting entitled "Changing the culture and preventing violence against women" organized by *Fondazione AEM* in collaboration with *SVS Donna Aiuta Donna Onlus* and *Soccorso Violenza Sessuale e Domestica (SVSeD)* and an e-learning course to address the issue of gender harassment in addition to other awareness actions.

Disability

With the aim of enhancing the uniqueness of all the people of the Group, with the support of the *Inclusion Team*, which follows the *Disability issue*, A2A has embarked on a collaboration with **Auticon**, a company with the peculiarity of employing as IT consultants professionals with skills on the **autism spectrum** to carry out data analysis activities. Within

this context and on the initiative of the *Group ICT and Digital Enablement department*, a project has been launched to analyse the value contained in the archived interactions between users and the *Service Desk*, a tool for *ticketing* in A2A, and use this information to improve the quality of the service. In addition, with the aim of extending the collaboration to other areas of the company, a training session was also organized to learn more about their reality and find further new points of collaboration. With this in mind, during 2021, the Group launched, in collaboration with *AFOLMET*, the implementation phase of the **New Energies Project**, already planned in 2020 but temporarily "suspended" due to the pandemic emergency. Objective of the project was to define, starting from the "mapping" of the "needs" of the most "fragile" workers, an organizational model of *disability management* aimed at facilitating the involvement of people with disabilities in business processes. During 2021, special survey questionnaires were administered to both managers and workers with disabilities, from the analysis and synthesis of which a number of "areas of intervention" emerged with the consequent definition of an action plan, targeted on the person, which will be implemented during 2022.



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Intellectual capital

REFERENCE CONTEXT

Innovate to manage resources intelligently and sustainably

Companies are going through a historical moment of great transformation, due to technological factors such as digitalization, the search for solutions to reduce environmental impacts, the management of increasingly resilient networks. Research and innovation are becoming increasingly important. However, the incidence of these investments on turnover remains marginal.

City living is becoming the preferred choice for millions of people for a variety of reasons such as proximity to work, availability of services and forms of entertainment and cultural stimulation. The city of the future, therefore, must be increasingly "smart" and citizen-friendly (think of the so-called 15-minute city): some NbS (Nature based solutions) such as, for example, green roofs and walls, green infrastructure, parks and green belts. *Smart* cities will also need to be increasingly sustainable and green, to support climate change adaptation and mitigation, air and water protection and, in general, make citizens' lives more comfortable.

Thanks to their managed services, *utilities* play a strategic role in the creation of the "smart cities" of the future and are supported in their activities also by the investments provided by the PNRR.

Mission 1 of the PNRR "Digitalization, innovation, competitiveness, culture and tourism" and in particular component 2 "Digitalization, innovation and competitiveness in the productive system" provides almost 24 billion euro of resources to encourage digital transition and innovation in the productive system, encouraging investment in advanced technologies, research and innovation.

The digitalization of the production system also passes through the digitalization and innovation of *business* models and management of the daily life of employees, a topic that is still very important due to the pandemic. Projects and investments in Cybersecurity, Blockchain, Cloud and Data management are becoming more and more necessary for companies, both for the internal management of activities and to provide cutting-edge services and products to their customers.

Today, in a historical period of unprecedented uncertainty, it is not easy for new generations to enter the job market. To stand out in this highly competitive environment we are learning to shape-shift, adapt and recognize the true value of knowledge, ideas and concepts created from innovation: invaluable capital for a company that believes in developing valuable projects. Nearly at the end of our education, we young people are ready to make our contributions. But the real question is, will the working world be ready to receive?

VITTORIA, 17 years old, Parma

2021 IN FACTS

24 billion euro OF INVESTMENTS FORESEEN BY THE PNRR IN DIGITALIZATION AND INNOVATION

29% DATA SCIENTISTS PRESENT IN LARGE COMPANIES

+17% STRONG INVESTMENTS BY COMPANIES IN SOFTWARE IN 2021

1.39 billion OF CYBERSECURITY SPENDING IN 2021

IMPACTS FOR A2A

SDGs IMPACTED



MATERIAL ISSUE

Innovation and *digital transformation*

STRATEGIC PLAN @2030

288 tons of CO₂ avoided by digital initiatives

SOURCES

Top Utility, Performance of Italian utilities - VIII edition, 2020

UNEP, Smart, sustainable and resilient cities: the power of nature-based solutions - a working paper for the G20

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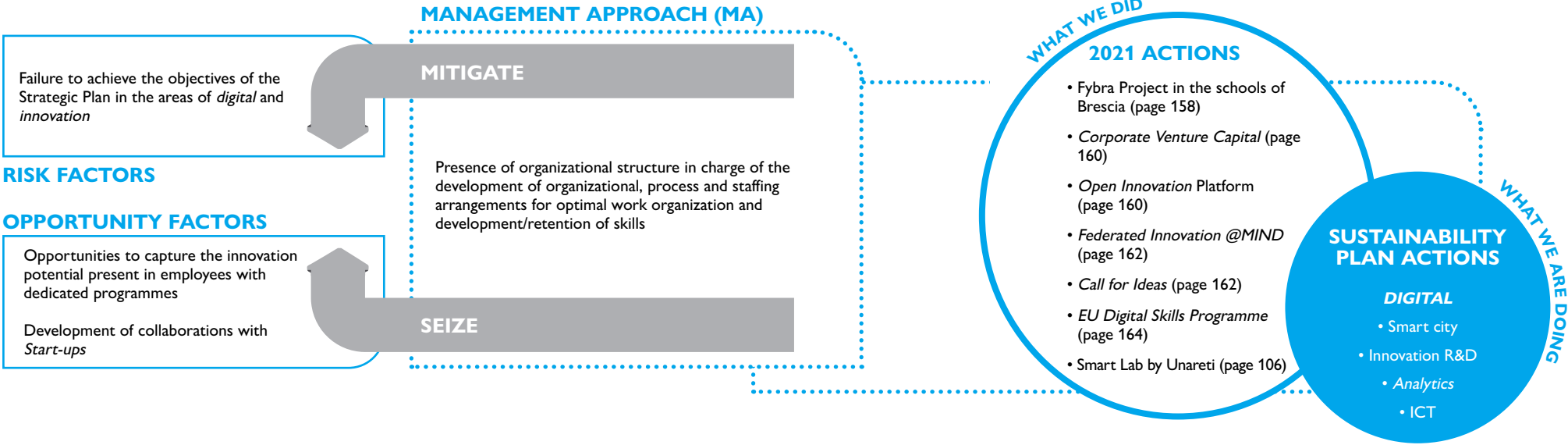
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Innovation and digital transformation

Promotion of research and development activities, which also make the most of internal skills and resources, aimed at updating and strengthening IT services and infrastructures; implementation and development of innovative and *smart* services for Group processes and the community.



9.1 A2A for Smart Cities

The Group develops smart solutions designed for districts and cities, making them smarter, more connected and more sustainable, improving them through the adoption of innovative technologies and informed use of data.

Smart Cities are increasingly connected

As a subsidiary of a *Life Company*, A2A Smart City provides innovative solutions to make the supply of primary goods such as water, gas and electricity smarter. Internet connection is now also a primary asset, which is why the Group also ensures access to the most advanced internet services not only for offices, but also for homes.

and Open Fiber followed an operational protocol that enhanced existing infrastructure, with an 80% reduction in excavation. The intervention involved 170 km of pre-existing network, with an extension of the infrastructure of a further 45 km that has allowed to reach more than 32 thousand real estate units, thanks to an investment of over 9 million euro.

The **FTTH** (Fiber To The Home) fiber **optic extension project** in the Municipality of Cremona, which started at the end of 2018, has provided citizens with a network that allows them to surf the web at a connection speed of up to 1 Gigabit per second (Gbps). The Municipality of Cremona, A2A Smart City,

A2A has also made its experience available for the **first 5G tests in Milan**. Five installation points have been placed in Milan, where A2A Smart City will follow the infrastructural, testing and electrical maintenance part preparatory to the installation of the antennas.

SMART GRID PROJECT ALSO FOR GAS STATIONS

In 2021, A2A Smart City continued its fiber optic cabling activities in support of the Unareti Smart Grid project, connecting 500 new electrical stations (for a total of 3,400) and, for the first time, also 50 gas stations. The fiber connectivity allows real time monitoring of the status of the stations, and enables the possibility to remotely control, with a more powerful and robust solution, plant organs (switches or valves) to perform adjustment operations aimed at improving the quality of service and efficiency in the operation of networks. In the near future, A2A Smart City and Unareti will continue their efforts to increase the number of stations connected (by fiber and other communication technologies), the amount of information that can be acquired and the remote control actions that can be carried out remotely. In addition, experiments will be undertaken to develop automatic network regulation logics based on acquired data.

Digital Transformation

A Smart City is a city in which a multiplicity of stakeholders use and have at their disposal different devices that collaborate with each other to make the city smarter.

identities, while at the same time analysing the flow of people within the space. The tool is therefore useful for optimizing routes and enhancing areas based on actual user usage.

Smart video analysis

During the year, A2A closed a contract to **implement an advanced video analysis system** on the 35 cameras installed in the Porta Nuova park "the Library of Trees of Milan" (BAM). The system makes it possible to ensure the privacy of citizens by blurring

The dashboard of the City of Milan

A2A Smart City, in collaboration with AKQA and the Municipality of Milan, has carried out one of the key projects of the Milanese capital's **Digital Transformation Plan**. The dashboard aims to make data easily accessible to citizens by linking them to people's daily lives

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and their relationships, so that the distance between what is perceived and what is real can be shortened. This tool was unveiled at the opening of *Digital Week* 2021.

Remote Reading for Utilities

A2A Smart City contributes to the design of **innovative and sustainable solutions** dedicated to utilities, aimed at improving the processes of leak detection or control of consumption for their billing. Specifically, the company has initiated projects with several water management companies to bring re-

mote metering to their territories. Remote metering allows utilities to capture daily consumption data from users, coming to identify abnormal consumption caused by potential leaks and allowing for a more complete water balance. The skills in both water and technology within the Group enable the subsidiary *A2A Smart City* to create value also outside the territories it serves.



Smart Grid
530 smart sensors for water leaks installed in A2A Ciclo Idrico's integrated water cycle.

AIR QUALITY IN SCHOOLS AND PUBLIC SPACES

A2A has developed **technology capable of measuring environmental air parameters in schools**. A2A has brought "*Fybra*" to schools in Brescia, a technology installed in classrooms that **monitors air conditions from both a physical (temperature and humidity) and chemical point of view**. Controlling factors such as temperature and humidity is useful not only for calculating indoor comfort indices, but also for optimizing the management of energy resources. In addition, when air quality exceeds certain CO₂ levels, *Fybra* emits a red light signal warning of the need for air renewal. As part of the actions aimed at defining the improvement of air quality in outdoor spaces, in the last months of 2021, *A2A Smart City* signed an **agreement with a leading company in the world in the field of filters for the purification of air in outdoor spaces**. This type of solution is extremely advanced, allowing to create "bubbles" of clean air in long-stay areas such as stations, shelters, subways and family playgrounds. *A2A Smart City* will deploy this solution, currently not yet present in Italy, to promote air sustainability with a proactive service of reclamation and redevelopment of the resource.

9.2 Open Innovation

Open Innovation means generating innovation by intercepting and assimilating ideas, knowledge flows and solutions useful for the development of the circular economy and energy transition from an ecosystem made up of realities internal and external to the Group.

In order to implement *Open Innovation*, A2A has equipped itself with a **shared platform** through which employees, start-ups, companies and the research world are contributing to create value for the territories in which A2A operates. The platform allows launching *idea* generation, campaigns or hackathons but also managing end to end the development of different innovation activities.

The Group has created a true virtuous process of innovation generation and management that has allowed building strong relationships with important entities such as incubators/accelerators, innovation hubs, universities, research centres and **venture capitalists**.

Corporate Venture Capital

The Corporate Venture Capital (CVC) initiative was created in 2019 with the aim to identify innovative technologies and business models to strengthen the core business, support its evolution and generate value for the Group and for the territories in which it operates. Since its establishment, A2A's CVC has always worked in the areas of **circular economy, energy transition, mobility and new technologies to create the cities of the future**. The Group's CVC programme has seen the setting up of an investment fund dedicated to A2A in partnership with **360 Capital**, a leading European venture capital operator, and membership of the **Poli360** fund linked to the Milan Polytechnic, which leverages both the *Technology Transfer Office* and the *Polihub* incubator. To date, there are 7 start-ups in the portfolio of A2A's dedicated fund.

Fully passing last year's testing phase, many of the start-ups in the 2020 investment portfolio are now being evaluated for additional applications to take the technology to scale-up. The main developments are outlined below.

The product analyses of the Group's sorting plants are now carried out manually by plant operators at variable intervals spaced out over time. To address the possible loss of value of a portion of matter that is not intercepted within plants, the Group included the start-up **Greyparrot** in its portfolio in 2020. Thanks to the application of an automatic waste flow monitoring system within the Muggiano plastics recovery plant, the software has proven to be able to recognize with 98% accuracy the different types of material in transit, a result that led to the decision to extend the technology to more plants.



Plastics Recovery
18,559 tonnes of sorted plastics ready for final recovery plants

Enspired, an Austrian start-up already operating in Germany and the UK, has developed a **digital energy trading as a service (Taas) platform**, equipped with advanced artificial intelligence algorithms, whose mission is to promote energy transition by making electricity grids more flexible. The company operates in the short-term energy trading market, helping to balance energy supply and demand on the grid, optimizing the management of production and storage plants.

Swiss start-up **Hades'** "*Sewer Vision*", which has developed a computer vision-based solution for inspecting sewer networks that has been in A2A's CVC since 2020, has also officially entered the pilot phase. The experimentation, conducted during 2021, has seen the application of computer vision to the videos made during the invasive inspections of 20 km of sewer pipes of the Valtrompia collector. *Computer vision* allows to **significantly reduce the post-processing time of video inspections**, not only limiting possible operator errors in final assessments, but also creating synergies between engineering, operations and internal/external teams by facilitating the flow of information.

Beem Energy, a French start-up, sells a kit of plug & play photovoltaic panels for the self-production of electricity in the residential field that can be installed directly by the customer in less than 1 hour without the need for specialized technicians. The company

aims to create a new brand of reference able to make the kit a mass market product for all those who wish to self-produce renewable energy and contribute to decarbonization.

Energy Dome, an Italian company, has patented a new battery based on the thermodynamic cycle and the use of carbon dioxide (CO₂): a highly efficient and durable solution that can optimize the storage and use of energy from renewable sources. The technology, in fact, allows to store large amounts of energy, in the order of hundreds of MWh, and aims to complement wind and photovoltaic plants or systems for the production of green hydrogen. Specifically, it allows to accumulate energy in moments of excess releasing it when the production demand intensifies more. Unlike a thermochemical system, such as lithium batteries, it uses machines capable of compressing CO₂ to 65 atmospheres in order to transform it into a liquid state and ensure that the energy expended is efficiently stored. Finally, the CO₂ is regasified, re-expanded in a turbine to return the current absorbed by the network to the network itself and re-injected into a tank, the "dome". In this way, the process of supplying electricity can take place throughout the day, overcoming the limitations of photovoltaic and wind power whose production of electricity depends on the presence of the natural source. The start-up has signed a Memorandum of Understanding with A2A for the initial implementation of the first 100 MWh CO₂ batteries in Italy.

In 2021, moreover, thanks to membership in the venture capital fund "**Eureka!**" managed by **EU-REKA! Venture SGR**, and the partnership with 29 universities and scientific research centres in Italy, the Group has extended its initiative to innovative start-ups and SMEs in the field of advanced materials, applications and technologies related to materials science and engineering.

Circular Materials, an Italian company based in Milan, has patented a technology for the removal of heavy and precious metals from industrial wastewater with a view to the circular economy. The plant developed by the start-up effectively recovers metals such as arsenic, cadmium, nickel, zinc, copper, mercury, gold, silver, etc. so that they are not dispersed into the environment and can once again generate value. The technology adopted also allows a drastic reduction in treatment costs compared to current technologies. The start-up is in the process of forging agreements with leading industry players in Italy and Germany.

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1 The Fund also includes among its investors the European Investment Fund (EIF) and Cassa Depositi e Prestiti (CDP).

FEDERATED INNOVATION @MIND

With a view to strengthening and further developing the Group's ability to intercept valuable solutions in the field of sustainability, and increasing its own ecosystem of innovation, A2A is one of the founders of *Federated Innovation™ @MIND*, a public-private collaborative model created within MIND - the new innovation district that is growing in the former EXPO area. *Federated Innovation* is a unique model that currently brings together a network of 37 founders, leading companies in their respective sectors at national and international level, aimed at **generating research and innovation initiatives**, encouraging **technology transfer** and the contamination of ideas on a platform open to the collaboration of all: companies, universities, start-ups, investors and talents.

Within the *Federated Innovation*, A2A, in addition to being one of the founding companies, is also part of the *Greentech* and *Circular economy* thematic area where it will work to develop projects to support the objectives of energy transition and circular economy.

Call for Ideas

During 2021, the first *Corporate Intrapreneurship* initiative involving all Group employees was completed. The response was very large: over 3,000 participants, 540 projects and 8 finalist teams. The initiative was managed through the innovation portal and was structured in 3 phases:

- collection of ideas: with the generation of more than 500 ideas that reached the subsequent phases;
- development: enrichment of 320 ideas through a structured path in 7 steps, to elaborate the key information for the development of a concept;
- final selection.

Among the finalists there are **EV Smart Parking**, which consists in the realization of electric charging stations for cars to be placed potentially anywhere in the city, and the group of the project **Teleriscaldamento Zero**, which has designed a fifth-generation district heating network at natural temperature based on the recovery of waste energy from the North Plant of Brescia.

The winner **Blue Energy** will have a budget of 50 thousand euro to start with the realization of a technical and economic feasibility study of a plant for the generation of renewable energy from salt gradients. This energy is obtained through the process of reverse electrodialysis that allows to produce electricity by putting in contact two aqueous solutions of different salinity and controlling the motion of the ions through special membranes.

In addition, the first place team in the call for ideas initiative was awarded as a prize the chance to participate in a technology expedition with the oppor-

tunity to discover the Israeli innovation ecosystem, interact with local start-ups and incubators in Israel, one of the most dynamic nations in terms of entrepreneurship and technology development.

9.3 Knowledge spillover

The search for innovative and technologically advanced solutions affects all areas of the Group and is aimed at improving both the products/services offered to end customers and the processes and working methods of all Group resources.

New tools for monitoring employee-related trends

The Group is implementing a platform to promote the aggregated, effective, innovative and agile management of the various services/tools made available to employees, acting as an enabler that impacts on the company in terms of effectiveness and efficiency, on the people of the Group by increasing *engagement*, on the organizational culture by facilitating the process of digital transformation. The "*Employee Digital Channel*" project aims to **implement a new digital platform to improve the employee experience**, proposing itself as a daily access point to support both the life in the company and the professional activities.

In addition, the *People Report*, a **quarterly tool for measuring and monitoring certain KPIs concerning A2A employees**, was implemented and finalized in 2021. The data collection will take place partly in an automated way in the system, partly in a manual way. In both cases, the goal is to **update a dashboard to navigate and explore topics of interest**.

Optimization of staff services and evaluation of ICT services

In 2021, a digitalization effort was undertaken to streamline the processes associated with drafting, managing, entering into and monitoring service contracts.

While, in order to assess the degree of satisfaction with the work and suggestions for future improvements, the ICT function launched a survey addressed to all employees. The idea stems from the belief that the path of improvement, development and digitalization of services also passes through the satisfaction and suggestions of all employees who, every day, use the IT tools that the company provides. Compared to previous years, there was 40% more participation (approximately 2,300 colleagues), and **approximately 77% were satisfied and 15% very satisfied**.

Job rotation and knowledge sharing within the Networks BU

The results obtained from the *Digital DNA* survey showed a significant number of *Smart Infrastructures Business Unit* colleagues who achieved a high level of *Digital Readiness*. These employees were given the opportunity to gain experience in another company function (6-8 months on a project in another area of the Group or in another company for 1-2 days a week) thus encouraging networking and mutual understanding within the BU. The project also allows to experience a kind of "job rotation" that can be an opportunity to expand knowledge of our Group and the various business processes.

9.4 Digitalization

A2A invests in digitalization and innovation to accelerate the achievement of its objectives and to make its contribution to sustainable development even more incisive.

The 2021-2030 **Business Plan** includes the **Digital Transformation Plan and the Digital Sustainability Plan**. The Digital Transformation Plan is a key enabler for achieving the strategic plan and a transformative element not only in technology but also in processes, culture and skills. This is based on 4 pillars:

- **Asset excellence:** support the *energy transition* by guiding the evolution of the asset portfolio in

a data-driven manner and continue to maximize plant availability by leveraging advanced technologies;

- **Operational efficiency:** optimize operations (i.e. fleet routing, maintenance activities,...) and continue to work on automation and optimization of manual/repetitive activities;
- **Stakeholders multi-channel** experience: provide a "seamless" customer/citizen experience using digital tools and use digital technology to enable/accelerate Group VAS sales
- Employee centricity and full digitalization: lead the digitalization of all Group employees by bridging the "digital divide" and develop and grow advanced skills to support digital ambition.

Within the *Digital Transformation Plan*, the approximately **190 initiatives** were analysed and for each of them the **possible impact in terms of sustainability** was evaluated and analysed. Specifically, in addition to the impacts of initiatives on the SDGs, it was decided to quantitatively measure environmental impacts as well.

With the implementation of the Plan, a Change Management process was also initiated with colleagues from New Ways of Working. In particular, a Change Management approach has been defined consisting of 5 phases (*Analyze, Explore, Design, Build, Monitor*), whose depth will be modulated according to the peculiarities of each project.

Thanks to the transversal work of the colleagues of *Group Information Communication Technology and Digital Enablement and of New Ways of Working*, the "*Digital Inclusion*" project was also completed, which envisages **100% digital access to company services** for all Group employees, also involving around 4,000 operational colleagues.

Through personal devices (mobile/tablet) and using the credentials received, they can access all *Office services (Outlook, Teams, One Drive)*.

During 2021, the dematerialization of documents involved about 1,300,000 pages, equal to 6.5 tonnes of paper, helping to "save" 156 trees, as well as avoiding CO₂ emissions for the production, transport, disposal and recycling of paper and toner.



Emissions avoided
123 tons of CO₂ avoided thanks to the paper saved and the kilometres not made

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EU DIGITAL SKILLS PROGRAMME

A2A has been selected by the **European Commission** to be one of the first 50 companies to take part in the pilot phase of the "**EU Digital Skills Programme**", an initiative that aims to help European Small and Medium Enterprises in their digitalization path, thanks to the voluntary "*tutoring*" of large companies. The programme is part of the broader **Digital Decade Communication** that, by 2030, plans to equip at least 80% of EU citizens with digital skills, reach 75% of European businesses with cloud computing, big data and artificial intelligence services, and more than 90% of European SMEs with at least a basic level of digital intensity. The Group was invited, as a tutor, to participate in the pilot phase of the programme, led by the ICT function that participated in the project phase and that, periodically, is involved in the working tables of the *Digital Decade Communication*. In particular, A2A has chosen to support Solco Brescia, a consortium of cooperatives that has been collaborating with our Group for many years, in the configuration of a digital solution for Work Force Management (WFM), that is, the process of optimizing the management of employees through the Salesforce platform, capable of assembling and conveying in a single channel all the requests coming from multiple sources.

9.5 Research & Development

Clean patents

A2A is working to make the synergies between its sustainable business model and intellectual property effectively applicable.

For example, the first prototype of the MV/LV (Medium Voltage and Low Voltage) substation that is compact, underground, waterproof and equipped with a ventilation system for heat dissipation (of the *Underground Compact Substation* project) will be tested by 2023, in **Unareti's Smart Lab**. The design of the substation was **patented by A2A**. The solution will help overcome current operating limitations **by making the energy transmission service more efficient and sustainable**, but more importantly, the impact of operation on local communities will be limited. The compact dimensions mean that the **proposed solution occupies 70% less volume than a standard** MV/LV substation.

Group Data Office

A2A wants to be a data-driven Group, and works every day to achieve its goal **by leveraging data as a strategic resource for digital transformation**.

For some time now, A2A has been engaged in a process of digitalization of all the Group's assets, which from an operational point of view is also involving operations and channels that involve customers.

Several projects in Advanced Analytics and Artificial Intelligence have been implemented to extract value from enterprise data. As part of the renewal of energy supply contracts, the **Dynamic Repricing** project aims to move from an undifferentiated renewal price for free market customers **to the identification of a differentiated price based on sensitivity to price changes and the customer's propensity to renew**, while maintaining a stable churn rate. The pilot phase is confirming **better than expected results**.

During the year, two business optimization initiatives were carried out: the first one concerning the **optimization of the thermal energy supplied by district heating plants** and the reduction of the related waste, succeeding in improving the planning and operation of the plants through an hourly forecast of the thermal load produced by the plants; the second one was the optimization of the **Smartbin positioning** points in the city of Milan by increasing the productivity of the emptying service.

Various projects were also launched in different areas: predictive maintenance on network assets, reduction of the electrical imbalance of the Silla2 waste-to-energy plant, churn prediction and prevention for customers and payment anomaly detection.

100% ELECTRIC RETROFIT PROJECT ON WASTE COLLECTION FLEET

The **AMSA** fleet was chosen to test under operational conditions, a **100% electric retrofit** system applied in its own 3.5-tonne diesel truck. The **retrofit** system enables the vehicles to be approved quickly and the registration certificate to be updated so that they can be put into operation immediately. The choice of retrofit, in addition to the environmental benefits due to the use of mobility with low environmental impact and the circularity due to the extension of the service life of collection vehicles, allows to significantly reduce the investment compared to the purchase of new electric vehicles and to significantly reduce *OpEx* compared to diesel vehicles, by virtue of the lower cost per kilometre travelled, lower maintenance costs and the possibility of reducing insurance costs.

Hydrogen

The Group's role as Italy's second largest electricity producer in terms of installed capacity and its established experience in the *circular economy* allow it to offer **various solutions for the production of green hydrogen**. For this reason, in 2021, the Group committed to developing the potential of this resource by launching several wide-ranging projects aimed at contributing effectively to the decarbonization of the heavy mobility sector and more generally of the hard-to-abate sectors.

During 2021, the technical and economic feasibility of **converting thermoelectric power plants from natural gas to hydrogen**, or natural gas/hydrogen blends, was examined in depth and the study of **gas distribution infrastructures** was launched in order to **make them "hydrogen-ready"**.

The Group committed to developing a study aimed at identifying the most suitable sites for an integration between existing renewable energy plants and hydrogen production units. The project has evolved into the **identification of a pilot plant and the development of a technical and economic feasibility study of a wide initiative of decarbonization of the Sardinian territory**, considered a very interesting testing ground for the development of renewables and hydrogen given the need to accelerate the abandonment of coal. Specifically, the initiative focused on the evaluation of different configurations of supply of green hydrogen, produced starting from a wind farm in the Oristano area with an electrolyzer of a power equal to 20 MW, with the aim of laying the foundations for the development of a network of users mainly related to the world of transport that can enable the development of a subsequent phase of the *partnership*.

Finally, FNM, A2A and Snam - as per the *Memorandum of Understanding of 2020* - in order to give further impetus to the development of green mobility in Lombardy, have pursued the project that aims to develop the **first Italian "Hydrogen Valley" in Val Camonica**, which will also allow the replacement of the current diesel trains on the Brescia-Iseo-Edo line with **new hydrogen-powered trains**. The energy will be produced through the generation of renewable electricity from the Brescia (A2A) waste-to-energy plant, with the installation of an electrolyzer with a capacity of 6 MW, potentially scalable up to 21 MW. The project schedule calls for initiation of the authorization process during 2022 and construction and commissioning in 2023-2024. The first delivery for FNM trains will be in early 2025.

The project, which is configured as **one of the first initiatives in the hydrogen field in Italy**, has recently been **awarded with a European grant of 4.5 million euro** from the *Innovation Fund Small Scale*.

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10.1 Relations with customers

REFERENCE CONTEXT

Maintain a high and sustainable quality of services

The year 2021 saw a sharp increase in energy consumption from fossil fuels. The increase in consumption, together with the scarcity of energy resources, has led to a very strong increase in energy and gas prices, first at the financial level, then on the retail market and then on consumers. Gas prices in the last half of 2021 are estimated to be up 40% from a year earlier for residential consumers and about 100% for businesses. Electricity prices, on the other hand, are estimated to be nearly 50% higher for residential consumers and more than 50% higher for businesses. Companies have made every effort to protect their customers by every means available to them.

In 2021, utilities have seen an exponential increase in energy efficiency measures, thanks to Decree-Law No. 34 of May 19, 2020, also known as the Relaunch Decree, which provides two benefits for two different types of interventions: the *Super Ecobonus*, for energy efficiency work and the *Super Sismabonus* for work on seismic upgrades. Specifically, utilities are involved because energy efficiency interventions also involve the replacement of heating systems, the installation of photovoltaic systems and home automation systems.

Electric mobility grew in 2021, thanks in part to numerous incentives for scrapping and buying electric and hybrid cars. According to Motus - E (Italian as-

sociation representing the stakeholders involved in the electric mobility supply chain) the registrations of PEV (Plug in Electric Vehicle) cars in Italy in 2021 recorded an increase of 128%; the increase of electric mobility must necessarily be accompanied by an expansion of the charging infrastructure. Industrial policies play a significant role: the PNRR provides 0.74 billion euro (Investment 4.3: Development of electric charging infrastructure) to build enabling infrastructure to promote the development of sustainable mobility. In order to enable the realization of these objectives, the intervention is aimed at the development of 7,500 fast charging points on motorways and 13,755 in urban centers, as well as 100 experimental charging stations with energy storage technologies.

The restrictions of the pandemic and the subsequent resumption of activities also affected the management of waste collection. In addition, the *Plastic* and *Sugar Tax* have been postponed to the Budget Law 2022 (therefore valid for 2023): in particular, the former concerns the so-called MACSI, i.e. plastic products with a single use. From 2023, 0.45 euro will have to be paid for each kilogram of plastic, in order to discourage its use for disposable items.

Most of us kids do not have any experience or familiarity with managing electric and gas contracts, yet during the health emergency, to help our parents and grandparents, we found ourselves paying bills *online* or requesting quotes. For example, apps and websites made by some companies simplify access to the services they offer and provide guidance and best practices toward energy conservation. We can say that in some way the pandemic has pushed us to consider issues that we previously felt were distant and that instead are fundamental for the common well-being towards a more sustainable future.

VINCENZA CARMEN, 18 years old, Salerno

2021 IN FACTS

71% OF THE TOP 100 UTILITIES OFFERS MOBILE APPS FOR CUSTOMERS

86% OF CITIZENS THINK THAT NEW FORMS OF MOBILITY WILL REPLACE THE PRIVATE CAR

66% AVERAGE ITALIAN SEPARATE WASTE COLLECTION

97% OF THE SERVICES PROVIDED WITHIN THE TIMEFRAME ESTABLISHED BY ARERA

IMPACTS FOR A2A

SDGs IMPACTED



MATERIAL ISSUE

Responsibility and quality in the provision of services

STRATEGIC PLAN @2030

41% digital contacts on total (digitalization Customer Care)

SOURCES

Tommaso Gavi, Plastic tax and sugar tax, new postponement in the Budget Law 2022, 2022
Deloitte, New mobility: impacts and opportunities, 2020
Top Utility, The performance of Italian utilities - 8th edition, 2020

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Relations with the community
Relations with suppliers

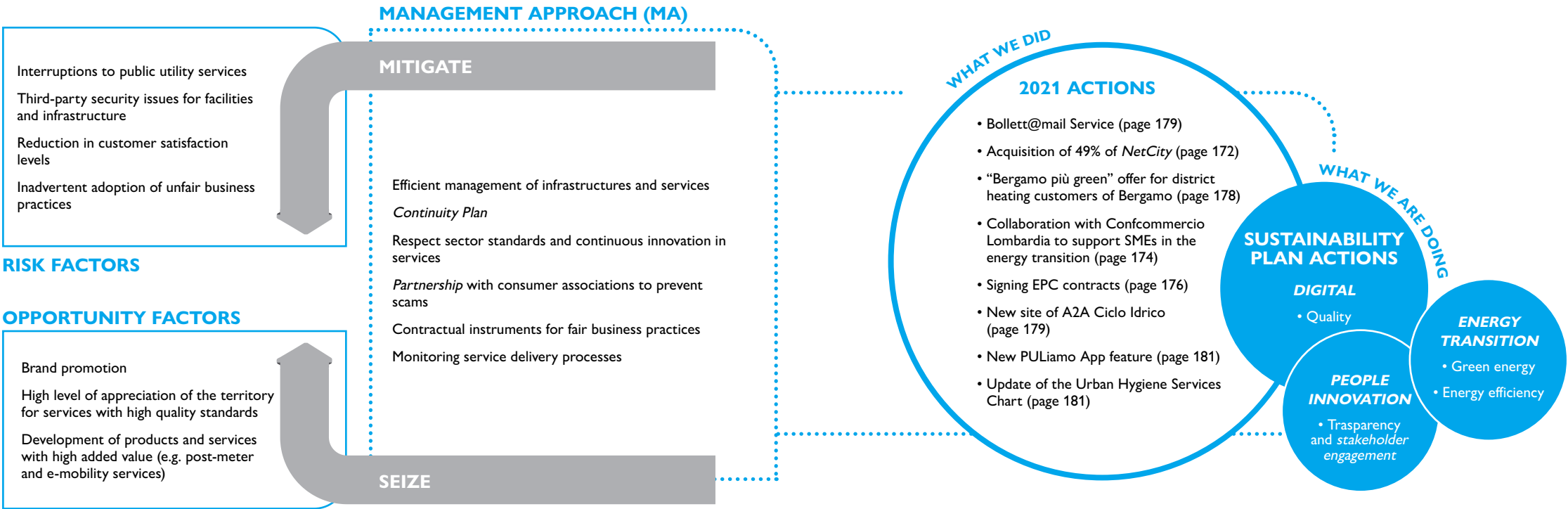
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Responsibility and quality in the provision of services

Provide quality, safe and reliable services and act flexibly and promptly in responding to customers' expectations; implement actions and systems to manage risks and emergencies to ensure continuity of service; adopt correct communication and marketing practices; commit to the proper security management of customer and employee data, with a view to protecting privacy. Development and promotion of energy efficiency and green mobility products and services for customers.



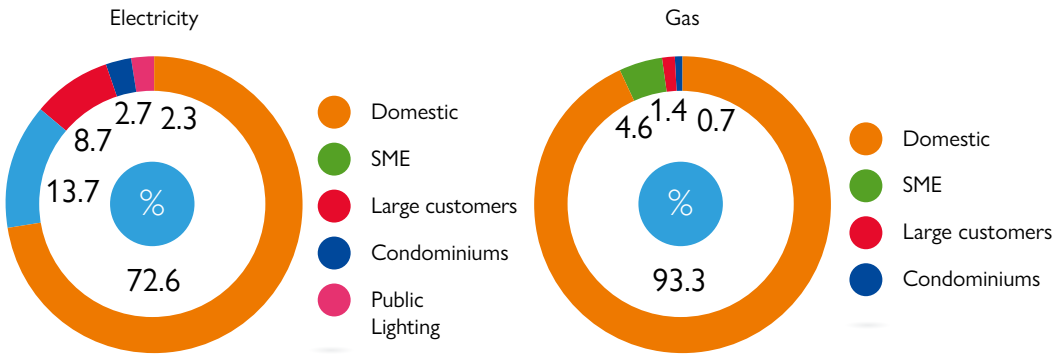
10.1.1 Relations with customers of the Market BU

A2A concretizes its role as a *Life Company* committing itself to providing quality products and services through ethical business conduct and a transparent and reliable relationship with its customers. The *Market Business Unit* - of which A2A Energia, A2A Energy Solutions and Yada Energia are part - was set up with the aim of meeting the energy needs of households and businesses by offering effective, innovative and sustainable solutions, ensuring the highest standards of *quality* in sales and customer assistance. The Market BU operates nationwide with a portfolio of offerings for all customer segments, from electricity and natural gas supplies, to products and solutions for energy efficiency and e-mobility. The following chapter also includes the performance of retail companies of the Lumenergia Group and ASM Energia.

Electricity and gas sales service

In 2021, the Group's sales companies sold a total of 2,275 million cubic meters of gas and 18,020 GWh of electricity. The number of total deliveries increased 11% for electricity and 10% for gas. As of December 31, 2021, 1,013,943 electricity deliveries and 826,423 gas contracts were active in the deregulated market. On the other hand, the 40% share of electricity sold outside Lombardy remained stable.

Figure 48 Number of Customers, analysed by type



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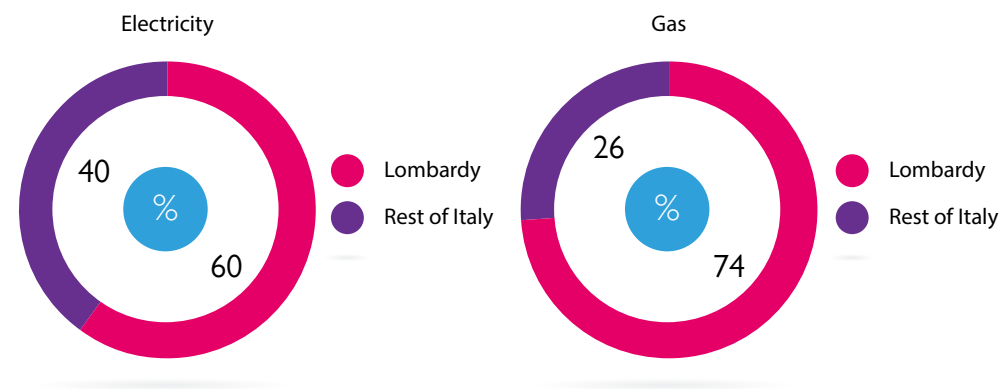
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Figure 49 Geographic breakdown of sales volumes



A2A Energia is the main commercial company of the Market Business Unit active in the sale of electricity, natural gas and products and services for energy efficiency and electric mobility. Every day, it supplies electricity and gas to more than 2.5 million customers, from large industrial enterprises to small and medium-sized businesses, from condominiums to domestic customers.

Confirming its desire to develop and grow at a national level in the sale of electricity and gas, in all markets and all customer segments, A2A Energia was **awarded three lots of the first auctions for the Gradual Protection Service in 2021**. The latter, promoted by ARERA to guarantee, for a transitional period (July 1, 2021-June 30, 2024), the supply of electricity to small businesses that have not yet chosen a free market offer, have led A2A Energia to serve around 80,000 new supply points since July, for a reference volume of around 1.8 TWh/year. In the areas in which A2A won the auctions for the Gradual Protection Service **a communication campaign was promoted in order to increase brand awareness**. The campaign was planned from September to December 2021 on *Out of Home*, *Digital* and *Social* channels.

In a context in which the Group is active in promoting strong investments in the electric mobility segment, in July 2021, A2A Energia acquired from A2A Energy Solutions the business unit relating to the *Mobility Service Provider* (MSP) activities, which include the **development and the proposal of integrated solutions for electric mobility dedicated to private customers** including therefore infrastructures on private land (wallboxes and columns) and services for charging electric

vehicles on public and private land. With the aim of promoting concrete actions to support the energy transition and the electrification of mobility, A2A Energia also took part in important events in the sector, such as *E-mob*, the National Conference on Electric Mobility held in Milan in October 2021, and *Key Energy 2021*, the international fair for renewable energies, storage systems and infrastructures for sustainable mobility held in Rimini in the same month.

In addition, in September 2021, A2A Energia completed the acquisition of 49% of the capital of *NetCity*, a company of *SunCity Group* specialized in the **provision of installation and maintenance services of products for energy efficiency, distributed generation and electric mobility** for the consumer segment. In line with A2A's strategy and its commitment to the development of solutions for the energy transition, the operation enables it to better oversee the procurement, installation and assistance activities for products and services dedicated to customers. This agreement will also allow for a further geographical expansion of the areas served over time for this type of products and services and reinforces the Group's role as an integrated provider of energy transition solutions, capable of always responding to the needs of its customers.

Also Lumenergia, in synergy with the Group, proposes offers to its business customers for the implementation of energy efficiency solutions, relamping, sustainable mobility or installation of photovoltaic systems.

Responsibility in customer service

In line with its vocation as a *Life Company*, A2A has further expanded its range of products and integrated services capable of making people's lives "more azure". Being a *Life Company* also means valuing customers who are committed to **reducing their impact on the planet** by choosing an increasingly sustainable style of energy consumption. The entire portfolio of offers for the residential segment has consisted of **100% certified green energy since 2018**. During the year, Group companies sold **4,976 GWh** of green energy, an **increase over 2020 of +29%**.

Figure 50 Green energy sold and breakdown by market segment (in % and in GWh)

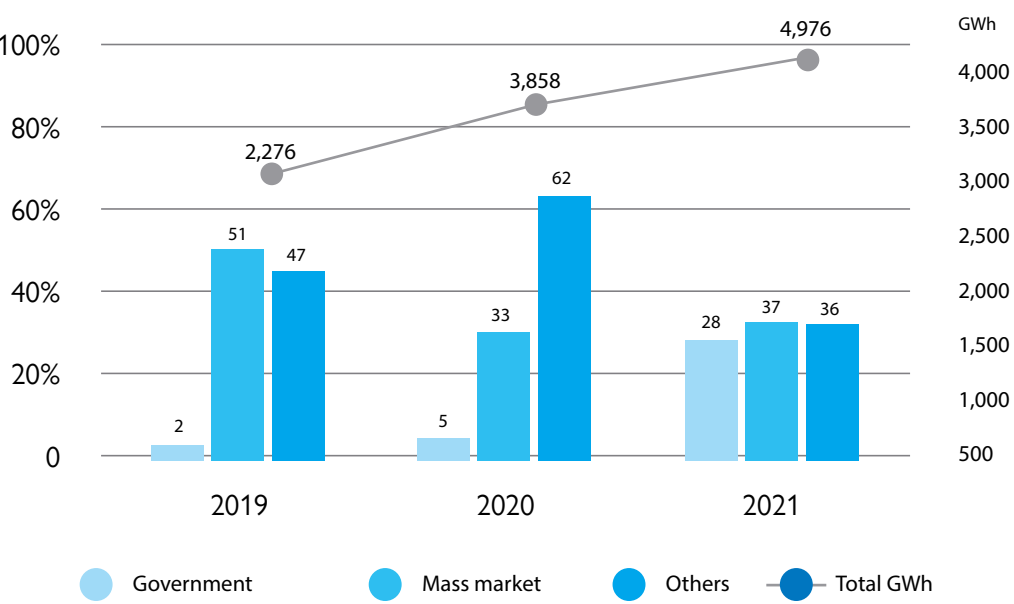
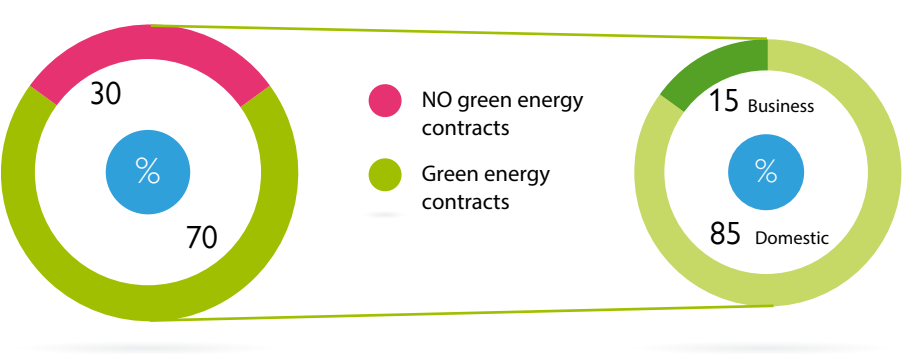


Figure 51 Distribution of mass market green energy by segment



Customers who have signed a contract for the supply of electricity produced from renewable sources of certified origin with one of the Group's commercial companies may request authorization to use the "100% GREEN A2A" brand.

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In September 2021, A2A Energia and Confcommercio Lombardia signed an agreement with the aim of activating actions to spread the culture of sustainability in the tertiary sector and give rise to a strategic partnership aimed at supporting concrete projects for the energy transition. Members can sign up for dedicated offers of electricity supply from renewable sources at discounted rates



CO₂ offset
Emissions
offset for 21 Mm³
of gas sold

of 10%. In addition, with the "zero impact" initiative, interested companies will be able to offset the CO₂ emissions generated by their gas supplies by purchasing carbon credits resulting from energy efficiency measures.

A2A Energia has made available a self-assessment tool to enable customers to discover their own profile and to receive tailored advice on how to improve their level of sustainability, also in terms of competitiveness and return on investment,

in order to contribute to the transition towards a model of sustainable growth. In addition to the above-mentioned tool, a specific consultancy for the Industrial, Tertiary and SME target is foreseen concerning: energy diagnosis; photovoltaic; photovoltaic with storage; electric mobility; relamping; consumption monitoring systems.

A2A Energia's free market electricity and gas offers are diversified on the basis of the needs of customers who may prefer the stability and security of a fixed price for the entire contractual period or the dynamism of a price that follows the trend of the wholesale market and varies month by month. In addition, a customer may prefer an offering that includes personal and home services such as, for example, A2A Full and A2A Premium offerings. Also ASM Energia, with a view to increasing the awareness of its customers, has published on its website a section with some useful advice for reducing energy consumption and waste called "Did you know that...".

PENSO GREEN (THINK GREEN) PROJECT OF A2A ENERGIA

The "Penso Green" project, aimed at raising awareness among families with children about environmental sustainability and responsible consumption through participation in an online quiz, ended in April 2021. The quiz, accompanied by a manual, aimed to spread the culture of sustainability, proposing, in a language suitable for children, virtuous examples of small gestures to be adopted every day. The prize is a free subscription to a science edutainment app and the chance to participate in the final drawing of a kit of electric scooters for the family.

Touch points

The growing competitiveness that characterizes the market, now close to a complete and final liberalization, requires a strong focus on key factors to enable the lasting success of the business, one of these concerns the development of channels for sales and customer service, effectively integrating the physical-territorial channels with the digital ones, focusing on omni-channel as a key lever to achieve business objectives and to meet the needs of customers;

A2A Energia offers a complete listening service through physical branches, SpazioA2A stores, call centers, social channels, WhatsApp and call-back service available on the website. In 2021, the A2A Energia call center received more than 2 million calls, while commercial counters welcomed and served nearly 150,000 visitors with an average wait time of about 5:12 minutes.

Through their branches, Gelsia and Lumenergia also served 35 thousand and 5 thousand customers respectively.

From 2021 the "Skip the queue" service is also active at the Gelsia Point counters, allowing customers to book their ticket for access to the counters directly from the company website.

The expansion of A2A Energia physical points throughout the territory also continued with the aim of informing consumers about the changes taking place in the energy markets and promoting the subscription of free market offers. During the year, three new SpazioA2A temporary stores were opened in Rome, Padua and La Spezia.

Figure S2 Call Center Call Monitoring (2021)

	Target ARERA	A2A Energia	Gelsia	ASM
Percentage of successful calls	>=80%	81.8%	97.5%	85.2%

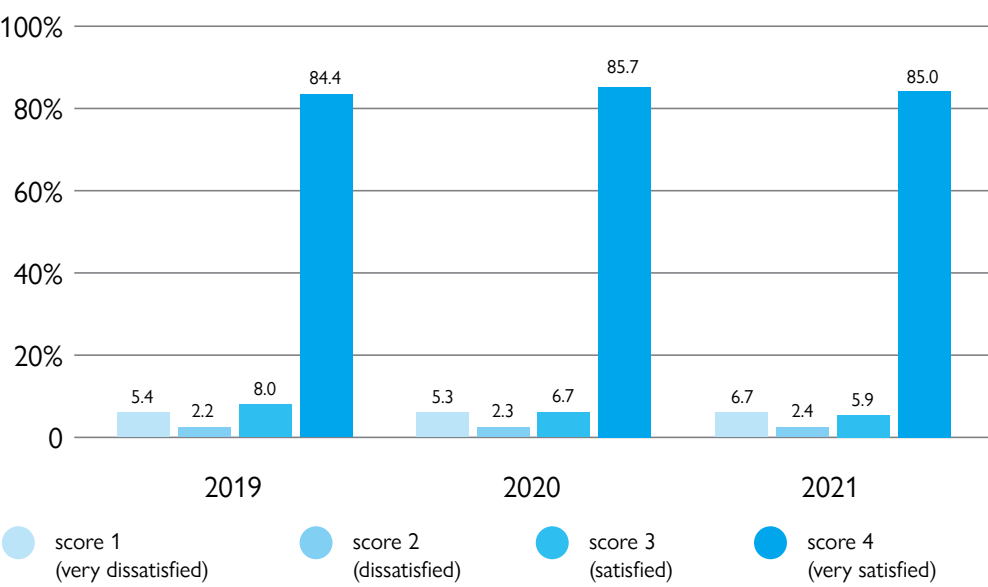
Customer satisfaction - call centers and counters

The Group constantly monitors the satisfaction of its customers in order to acquire awareness of the perception of the service provided and to identify areas of intervention with a view to continuous improvement through the many channels of contact.

In particular, in 2021, A2A Energia again took part in the Cerved survey and carried out a satisfaction analysis of free market customers and users who used the call center.

In the thirteenth edition of the Cerved "Energy and GasMonitor" in terms of the Customer Satisfaction Index, A2A Energia climbed onto the podium for both commodities for domestic and business customers, occupying first place for business gas. In the satisfaction survey of free market customers, A2A Energia obtained an overall score of 75.4, above the excellence threshold of 75. In addition, satisfaction with the call center stands at 94.6%, which is 4.5 percentage points higher than the national average. Finally, the "after call" survey confirms the excellent reputation of the call center represented below. Details of satisfaction survey results can be found in the Supplement on page 59.

Figure S3 Customer satisfaction after a call to the call centre (percentage on assessments recorded)



Accessibility of services and consumer protection

The Group has always been close to citizens to improve and maintain access to electricity by more disadvantaged populations through the development of various solutions.

The social bonus for economic hardship, as per ARERA provisions, is recognized for the supply of electricity and gas with an amount that varies on the basis of parameters such as ISEE or family size. In 2021, A2A recognized the gas bonus to 83,288 customers and the electricity bonus to 89,834 customers.

The social physical bonus is only recognized on supplies of electricity and the amount varies accord-

ing to the meter power and consumption bracket established by the ASL (local health authority). For 2021, the electricity bonus dedicated to people with physical disabilities was issued to 1,694 customers.

Moreover, A2A is particularly committed to ensuring customers with a service based on maximum transparency and fairness and over time, also in collaboration with the Consumer Associations, it has adopted various tools by which to simplify the information supplied to customers and regulate conduct clearly: from activation of the service through to joint settlement to the stipulation of the institute agreement of the Observatory on unfair commercial practices with the application (ex lege) of the Code of Commercial Conduct, the activation of the anti-fraud freephone number and the Self-regulation

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protocol. These actions have always gone hand-in-hand with constant training of sales staff and service staff in direct contact with customers.

Under the scope of consumer protection, the “anti-fraud” freephone number received 2,949 calls. Of these, 795 are related to unfair business practices by other operators and 759 by “unidentified” companies.

Energy efficiency, RES and mobility

The Group acts as a *partner* to companies and condominiums to implement solutions that promote energy saving, sustainability and energy *comfort*.

A2A Energy Solutions (AES), together with its investee company **Suncity** and in collaboration with **Linea Green**, offers itself as an ESCo and technological *partner* for companies and individuals, designing and implementing interventions through *Energy Performance Contracts (EPC)*, implementing tools to encourage the rational use of energy and *energy management* consultancy activities. Thanks to the expertise of experts in energy management, certified according to UNI 11339, each project is the result of a careful analysis of specific needs that allows to identify tailor-made solutions, ensuring significant energy savings. For **photovoltaic systems** A2A Energy Solutions takes care of all aspects relating to the construction and management of the plant, with the possibility of also including in the offer the removal of asbestos roofing. A2A Energy Solutions makes use of the main energy efficiency incentive tools, including **tax deductions for upgrading work, the thermal account and the White Certificates mechanism**.

For condominiums and the tertiary sector, AES signed 20 contracts in 2021, 17 of which will contribute significantly to the reduction of CO₂ emissions into the atmosphere. The interventions mainly concerned the cities of Milan and Bergamo and allowed to reduce the consumption of thermal energy thanks to the integrated redevelopment of existing buildings, the replacement of existing heating/cooling systems, as well as the installation of two photovoltaic systems in “operational rental” for a total of 507 kW, for an **estimated total saving of 580 tons of CO₂**.

In 2021, AES managed **9 projects with PV system service contracts**, totalling 1.4 MW of installed

Of A2A Energia customers, 48% gave consent for *Marketing* activities for their own products and services, while 21% gave consent for profiling for *Marketing* purposes (considered only the consents issued since February 2018 as Level 2 consent for *Marketing* purposes is valid for 48 months from the date of issue of the consent itself).

capacity. The service contract allows customers to have a photovoltaic system, without incurring directly the cost of purchase, but paying a periodic fee for an average duration of 10 years, after which they have the right to take over the system at no additional cost. For companies, this solution has several advantages, including: savings on bills, relief from tax charges and responsibility for managing insurance coverage costs, maintenance and administrative requirements.

On the other hand, there were **15 projects with installation of photovoltaic systems with incentives from AES**, for a total of 10.6 MW of installed power. The construction of plants under Ministerial Decree RES1 and the subsequent forms of incentives being studied by MiTE, is proposed to **customers to replace roofs of buildings and rural buildings containing asbestos or Eternit, since it allows, in addition to the removal of hazardous materials, to exploit the energy produced for self-consumption**, with an attractive fixed price for 20 years on the surplus energy produced.

In addition, in 2021, **AES signed 3 the EPC contracts**, with 2.2 MW of installed capacity. In Monza, at the plant of a well-known manufacturer of machines for professional lighting, a package of energy efficiency measures was carried out, including the creation of a photovoltaic system, the supply of electricity and gas, the industrial relamping of 20kW and heat management with the replacement of boilers with new high-efficiency ones.

In Brescia, at a leading company in the construction of complex products and aluminium profiles, a tri-generation plant has been installed to provide heat, cold and electricity. The intervention to the extent of 1.2 MW has allowed the customer to become more energy independent from the grid, make all processes more efficient and save on bills.

The RES plants of A2A Energy Solutions include: 12MW of assets under management, 4.3MW under construction, 2.2MW already authorized and 13.7MW contracted, for a total economic commitment of over 38 million euro in 2021.

During 2021 A2A Energy Solutions, together with its subsidiaries, produced **253 GWh of green energy from assets under management**, including photovoltaic and biomass plants, equivalent to 21.7 ktce of primary energy saved and generated 49 thousand white certificates, equivalent to 19.5 ktce of primary energy saved, equal to over **110,000 tonnes of CO₂** saved.

ROM - E

A2A took part in the first edition of *Rom - e*, the first festival linked to the ecological transition held in Rome on the first weekend of October. It was a widespread *Festival*, with demonstrative and educational activities, in which private companies and the public had the opportunity to meet and talk about new energy sources and smart mobility. Piazza San Silvestro was the location for A2A Energia: the area played a key role in illustrating services and projects linked to the world of sustainability, energy and sustainable mobility.

Electric mobility

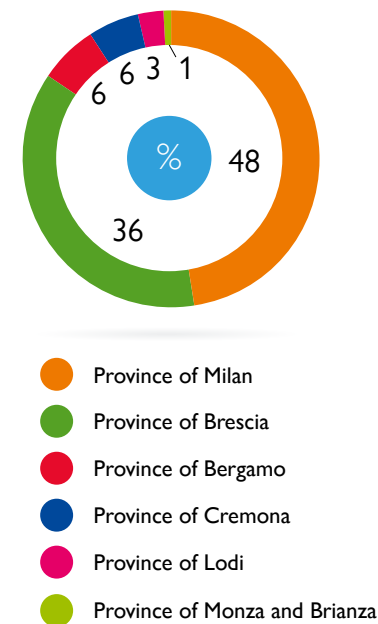
To meet the challenges of the Business Plan, from July 2021, the Group's activities concerning electric mobility. A2A Energia provides two solutions for recharging vehicles, at home or in the city: at home it is possible to install the “wallbox”, a domestic recharging infrastructure, while using the *E-moving app* it is possible to recharge your vehicle at one of the more than 750 recharging points present in Milan, Brescia, Bergamo, Cremona and Valtellina.

10.1.2 Relations with customers of the district heating service

The A2A Group manages the production, distribution and supply of heat, adopting the most innovative, efficient and environmentally friendly technologies and management methods. District heating is a safe, clean, effective and economical system that minimizes emissions in the vicinity of the environments in which people live and work (the heat is usually produced in plants located outside of inhabited centers) and significantly reduces the management costs borne by customers compared to traditional heating systems (e.g. periodic maintenance of boilers).

The Group manages district heating in the cities of Milan, Sesto San Giovanni (MI), Novate (MI), Cassano d'Adda (MI), Brescia, Bovezzo (BS), Concesio (BS), Bergamo, Cologno Monzese, Lodi, Cremona, Crema (Cr), Rho (MI) and Monza (Mb). This service is currently delivered to over 26,900 users (individual residential units in the case of independent heating or whole buildings in the case of centralised heating), for a total served volume of approximately 118 million cubic meters.

Figure 54 Geographical area distribution servita dal teleriscaldamento served by district heating



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In 2021, A2A Calore e Servizi has submitted its bid for district heating service "Bergamo più green" dedicated to the buildings in Bergamo with a central heating system, in the Colognola, Malpensata, San Tomaso, stadium area and via Corridoni districts. The offer is the result of the partnership defined with REA DALMINE (company owned by *Greenthesis Group*) to recover the heat coming from the waste-to-energy plant located in Dalmine. The project allows to increase by about 50% the energy available to the district heating network of Bergamo and to serve about 11 thousand more equivalent apartments, thanks to the construction of additional 22 km of network. From the environmental point of view, the project avoids the emission of about 15 thousand tons of CO₂ per year into the atmosphere.

A2A DISTRICT HEATING PROTAGONIST WITH THE R-ACES PROJECT

On October 15, 2021, the European Week of Regions and Cities 2021, the largest event dedicated to cohesion in local and regional management for good European governance, ended in Brussels. The themes of this edition, in addition to cohesion, were: *green and digital transition and Citizens Engagement*. Partners in the R-ACES consortium, including A2A Calore e Servizi for district heating, held a *workshop* on eco-regions: areas connected in a district heating/cooling network in which energy is shared to reduce waste. The network uses intelligent energy management systems and uses renewable and recovered energy from industrial processes to reduce greenhouse gas emissions.

During the workshop, the experiences of the Antwerp and Nyborg pilot eco-regions were presented, while the Lombardy case study was presented by A2A Calore e Servizi.

Quality of services provided and attention to customers

A2A Calore e Servizi operates in accordance with the standards indicated by the Regulatory Authority for Energy, Networks and Environment (ARERA) in Resolution 661/2018 on the regulation of commercial quality.

Also in 2021, the **T-Lab training courses** continued, the district heating specialization workshops dedicated to plant maintainers, condominium managers, technical operators in the sector and building constructors. The training path sees as partners also ANACI Milan and the Energy Desk of the Municipality of Milan.

In 2021, the **new commercial site for A2A Calore e Servizi** was designed. In order to simplify and support customers, a **touchpoint single point of contact** for all requests was activated: through the *form* it is possible to request information or an estimate, make a report, communicate self-metering or submit a complaint about district heating, district

cooling and plant management services. In addition, a tool that allows to download the documents necessary for the request for energy certification and a system of e-mail alert to which to subscribe in order to stay updated on the latest news were created.

Moreover, **the bollett@mail service has also been activated for district heating**. In 2021, nearly 60,000 bills were sent in digital format, about 25% of all bills issued in the year, resulting in improved service for customers and a positive environmental impact from reduced paper consumption for printing bills.

From July 2021, a function was also activated that allows for the activation of bollett@mail also by *Call Center / Counter operators*; this has made it possible to undertake synergic actions of sponsorship of the service on all contact channels and the launch of campaigns dedicated to administrators (end of 2021) and private customers (expected during 2022).

10.1.3 Relations with customers of the integrated water service

The companies A2A Ciclo Idrico and Azienda Servizi Valtrompia (ASVT) manage the integrated water service within the A2A Group, carrying out the activities of supply, treatment, distribution, sale of water, and collection and purification of sewage in a vast area of the province of Brescia.

In 2021, 223,608 users were connected to the aqueduct service, 652,845 users were served by the sewerage network and 641,106 those served by the purification plants.

Also in 2021, A2A Ciclo Idrico guaranteed the continuity of the service by managing all the programmed and accidental interruptions within the timing envisaged by the sector regulations and promptly arranging replacement services in all cases in which the interruption lasted for more than 48 hours.

Quality of services provided and attention to customers

The Group provides various channels, as well as informative materials, to communicate with citizens.

The emergency phone service for reporting inefficiencies, irregularities or interruptions in supply is free of charge from fixed and mobile networks and active 24 hours a day, every day of the year. The service provides, if necessary, instructions on the conduct to be adopted immediately to protect their own and others' safety, pending the arrival of the emergency team. In 2021,

the A2A Ciclo Idrico call centre processed 166,792 thousand calls (5 thousand more than 2020), maintaining excellent service quality levels with an average wait time of 168 seconds (177 in 2020).

Users of A2A Ciclo Idrico can also benefit from the **Bollett@mail**. In 2021, approximately 17% of the bills issued were sent to users via *e-mail* thus avoiding recourse to the postal service and the printing of the document on paper.

Inaugurated in December 2020, the **booking online service for the counters** of A2A Ciclo Idrico remained active throughout 2021. The service offered has the dual advantage of allowing the user to schedule an appointment and to safely manage entry to the locations with the appropriate spacing.

In 2021, the **new site of A2A Ciclo Idrico was designed**. In addition to the new sections dedicated to services on the territory and support for citizens, a section dedicated to A2A's projects in the water sector has been created. A way to update citizens on investments and innovations, but also to raise awareness about the protection of water resources. In this regard, also created was the *web game* "Count the Drop" that has the task of making families think about the use of water in the home, offering advice for responsible use of water in order to limit waste. It is also possible to subscribe to the *mail alert* service of A2A to stay updated on the topics of the integrated water cycle.

Figure 55 General indicators of the emergency service

2021	Standard	A2A Ciclo Idrico		ASVT	
		Cases that comply with the standard %	Actual average time	Cases that comply with the standard %	Actual average time
Response time to emergency call	≤120 seconds	90.43	78.26 sec	91.5	76.00 sec
Arrival time at the place of emergency call	3 hours	98.63	01:25 (h:mm)	100	47.34 min

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10.1.4 Relations with customers of the gas and electricity distribution service

Unareti is the A2A Group company that manages in an integrated way the distribution of electricity and gas. Unareti's activities take place in about 200 Italian municipalities in 7 regions, for a total of more than 20 thousand km of network.

Quality of services provided and attention to customers

Between 2020 and 2021, Unareti developed the project *Digital Customer Experience* focused on improving the digital experience of users when accessing the services offered, in particular through the website of the company.

In 2020, a new digital channel was activated (the so-called *webform*) that enables requests for estimates

to be entered (for both gas and electricity services), received, accepted and paid for by credit card; in 2021, on the other hand, the following online forms were activated for entering complaints and requests for information and for searching for POD (for electricity) and PDR (for gas) codes.

In addition, a proactive customer support messaging system has been activated, via *e-mail* and via *SMS* in order to support them throughout the practice of quotation and execution of works with timely information on the status of processing of the practice. Finally, a tool has been made available to citizens, allowing them to check the status of the electrical network in their street in case of accidental failure or maintenance activities.

THE AEIT CONFERENCE

Unareti and AEIT's 6th International Conference of Electrical and Electronic Technologies for Automotive. This past November 2021, Unareti participated in the Sixth International Conference of Electrical and Electronic Technologies for Automotive. Unareti presented the project "Distribution system and e-mobility LV network monitoring" that focuses on the quality of the low voltage network to support one of the key elements of the energy transition: electric mobility.

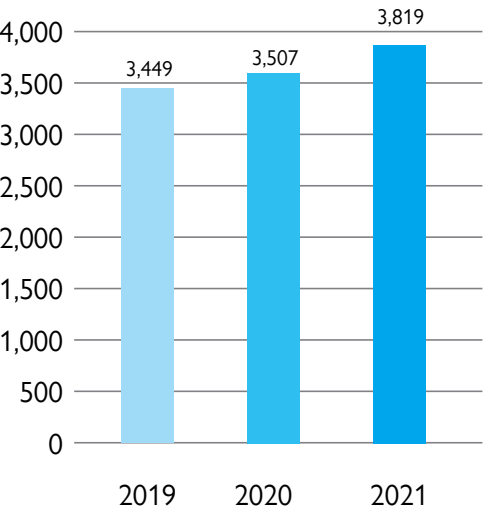
10.1.5 Relations with customers of the municipal sanitation service



Separate waste collection
70.7% separate collection index

Through the companies AMSA, APRICA, Linea Gestioni and Gelsia Ambiente, the Group deals with the municipal sanitation services of 257 municipalities, for a total of more than 3.8 million citizens served, in the provinces of Milan, Brescia, Bergamo, Como, Lodi, Lecco, Monza and Brianza, Mantua, Cremona and Genoa. In 2021, the municipalities of Uboldo and Gerenzano, served by AMSA, were added. In 2021, the waste disposal service, carried out by the companies A2A Ambiente and A2A Recycling, served around 1,300 municipalities and over 8 thousand companies, for a total of over 324 thousand tonnes of waste disposed of.

Figure 56 Total number of users of the municipal hygiene services (thousands)



Initiatives for the promotion of separate collection

In order to obtain high levels of separate waste collection, in addition to an adequate service, it is necessary to support and encourage correct behaviour on the part of citizens also through initiatives and information campaigns that are able to effectively reach the population. The Group's environmental hygiene companies create new (for new areas) or periodically update separate waste collection guides. These documents contain advice and suggestions for reducing the production of waste in the home, precise indications for separating and disposing of the various fractions of waste correctly and practical information on all the accessory services (collection centres,

collection of bulky waste, special collections such as green waste, hazardous waste, exhausted oils, batteries, medicines). In particular, this year the guides were updated for 6 municipalities served by AMSA and 15 municipalities served by Aprica; in addition, the 2022 collection calendars were produced and printed for 4 municipalities served by AMSA, 90 municipalities served by Aprica and 99 municipalities served by Linea Gestioni. For the Municipality of Milan, a guide to waste sorting has been created in 6 languages, to be distributed to ethnic restaurants.

It is also highlighted that a complete restyling has been carried out of the site dedicated to **Zone Services** to allow citizens to find out about services in the area and collection calendars.

WITH THE APP PULIAMO, TO DIFFERENTIATE WELL, IT IS ENOUGH TO VIEW THE BARCODE OF THE PURCHASED PRODUCTS

A2A's **PULIAMO APP**, an application for smartphones created to help citizens know how to correctly deliver waste and keep their cities cleaner and more sustainable, was enriched in 2021 with a new feature that allows users to know - by reading the barcode using the camera on their smartphones - how to dispose of a particular product. Thanks to the new function, citizens will be able to know how to correctly separate and dispose of the packaging, even those composed of several materials, of more than 1.6 million items on the market. The new function is already available for citizens served by Amsa and Aprica residing in the municipalities of Milan, Brescia, Bergamo, Chiavari, Rapallo and Zoagli and will soon be extended to other municipalities where the companies of the A2A Group operate. Finally, a version of PULiamo has been created and is now also available on the *Huawei App Gallery* as a complement to the existing *iOS* and *Play Store* versions.

AMSA and Aprica have continued the activities of **collection and recycling of Nespresso aluminium capsules**, thanks to the "From Chicco to Chicco" programme, developed by Nespresso, CIAL, Utilitalia and CIC. The programme allows used capsules to be recovered and given a second life by recycling the two materials of which they are composed: aluminium and residual coffee. Aluminium is recycled and coffee is turned into *compost* used for a rice field in Italy. The rice grown is then purchased by Nespresso and donated to the Food Bank Banco Alimentare, which in turn distributes it to those in need. In the first half of 2021, Amsa and Aprica managed to recover about 117 tonnes of aluminium capsules (+30% compared to last year) and to have 57 tonnes of rice produced (+44% compared to the previous year). A success that adds up to the positive results achieved throughout Italy and which have made it possible

to reach, in the first half of 2021, 800 tonnes of aluminium capsules recovered by Nespresso, 29% more - equivalent to over 177 tonnes of used capsules. In 2021, Nespresso was able to donate about 700 quintals of rice to the Lombardy Banco Alimentare and the Lazio Banco Alimentare, the equivalent of more than 780 thousand plates of rice.

Since June 2021, Amsa has been replacing the containers **for the collection of waste oil** present in the various large-scale retail outlets. Now the container is easier to use, thanks to the new door to introduce the bottles containing used oil and safer thanks to the new liquid collection tank at the base.

In 2021, **Linea Gestioni** launched two information campaigns, respectively for the launch of the "Cremona Punctual Tariff" project and for the

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installation of the mobile ECOISOLA in Lodi. In addition, awareness campaigns were carried out on the correct disposal of plastic, the correct use of roadside bins and the disposal of used vegetable oil in appropriate containers.

Gelsia Ambiente, a company of the AEB Group, supported the local authorities in the organization of ten **Green Days**, ecological days dedicated to the cleaning of the territory. To date, in 23 of the 25 municipalities in which the Company carries out the collection service, undifferentiated waste is collected using an advanced system that allows for better traceability of waste, thus stimulating more virtuous behaviour on the part of citizens. Finally, Gelsia Ambiente has activated 6 information points in the area regarding separate waste collection and environmental sanitation services.

Quality of services provided and attention to customers

The services offered are regulated by a specific Service Charter, which describes the terms, methods and quality of services offered to citizens in the municipalities served. In 2021, the Service Charters for the municipalities of Curtatone and Borgo Virgilio were created. As regards the call centre service, despite the high number of calls (over 500 thousand in total), customer satisfaction levels are very high. Also in 2021, a Customer Satisfaction survey was carried out on

the services that AMSA offers to citizens, managed directly by the Municipality of Milan, according to the provisions of the current service contract. The survey was conducted using CATI methodology, conducting 4 thousand valid interviews in the second half of April 2021. The services surveyed are the municipal waste collection service (overall rating of 8.11 out of 10), street cleaning (7.42), green area cleaning (7.47), recycling (8.51). Synthesizing the various evaluations collected in the weighted summary index, an average rating of 7.67 out of 10 is achieved.

Aprica's customer satisfaction for the city of Brescia was also analyzed in 2021. The survey for domestic customers involved a sample of 1,501 Aprica domestic users residing in the Municipality of Brescia and was carried out between October and November 2021, using a mixed CATI - CAVI methodology. The overall *Customer Satisfaction Index* indicates a score of 74.7 out of 100 while the following values are reported for the specific CSIs: 76.5 for collection service, 75.5 for contact channels, and 72.9 for improvement potential. The survey for business customers was carried out at the same time as that for domestic customers but using CATI methodology and involved 300 business users. The overall *Customer Satisfaction Index* is 71.7 out of 100, while for specific services the CSI stands at 72.5 for collection service, 76.8 for contact channels, and 69.5 for potential for improvement.

APRICA CUSTOMER SATISFACTION SURVEYS

Also in 2021, two customer satisfaction surveys were conducted for domestic and business customers regarding APRICA's services. The household customer survey was conducted in May 2021 using CATI methodology and involved a sample of 1,025 household users who were of age and resided in the 10 municipalities served. The overall *Customer Satisfaction Index* indicates a score of **76.1 out of 100**, while the specific CSIs stand at 77.6 for waste collection service and 77.2 for contact channels. The commercial customer survey was also conducted in May 2021 but using CATI-CAPI methodology and included a sample of 315 commercial users in the 10 municipalities served. The overall *Customer Satisfaction Index* indicates a score of **71.8 out of 100**, while the specific CSIs stand at 71.8 for waste collection service and 71.6 for contact channels.

Figure 57 Quality indicators of the call centre

AMSA		APRICA	
Accessibility of lines and services (time when line is free vs operator presence time)	100%	Accessibility of lines and services (time when line is free vs operator presence time)	100%
Average response speed (minutes seconds)	29	Average waiting time (minutes seconds)	116
Percentage of successful calls	98%	Percentage of successful calls	92%

10.1.6 Fairness and transparency in customer relations

In 2021, the Group did not receive any sanctions for situations of non-conformity with laws or regulations relating to the supply and related services, for marketing, sponsorship and communication activities.

In 2017, A2A Energia appealed to the Regional Administrative Court of Lazio against the fine imposed in October 2017 by the Antitrust Authority, for A2A Energia's failure to promptly adjust the channel for paying bills online by credit card in accordance with the Consumer Code of June 2014..

During 2017, an AEB Group company appealed to the Regional Administrative Court of Lazio against a penalty imposed on it by the AGCM for alleged unfair commercial practice. The lawsuit is still pending, pending the scheduling of a hearing for arguments. In the meantime, the company paid the penalty subject to repetition.

With a provision of June 15, 2021, the AGCM invited A2A Energia S.p.A. (so-called moral suasion) to remove the profiles of possible unfairness in relation to the commercial offers called A2A Click, Extra2A and Prezzo Chiaro A2A, requesting that, within the scope of any advertising communication, all the price components and other charges be indicated, in particular where said components are fixed at the discretion of the supplier. A2A Energia S.p.A. has deemed it appropriate to make certain changes to the promotional communications relating to its supply offers, making the amount of the price components discretionally defined by the seller and, in particular, the marketing charges, relating to each offer more evident. A2A Energia S.p.A. has also undertaken to apply the same changes on the new website, which is scheduled to be launched in March 2022.

In view of the commitments proposed, the AGCM found that the possible unfairness of the commercial practice had ceased to exist and therefore, on November 26, 2021, it decided to close the proceedings.

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10.2 Relations with the community

REFERENCE CONTEXT

Engage and protect our stakeholders

The crisis due to Covid-19 pandemic continued into 2021, except that, thanks to the availability of vaccines, economic activity resumed and schools were reopened. The whole world is still trying to reorganize itself around a "new normal". All of the companies have reorganized their activities for the community to meet new needs and requirements. Multi-utilities over the years have transformed themselves from simple providers of standard services to real protagonists of the lives of people and communities, thanks to the wide availability of products and services offered (e.g. energy efficiency solutions, the public lighting network, personalized waste collection services etc). Today, the value of the service offered does not lie in the service itself but in the relationship with the citizens, starting from listening to their needs until the actual implementation of a service, and in the ability to innovate.

In this context, stakeholder engagement activities become a strategic tool for the company, which adopts more and more structured and inclusive processes, in order to offer an adequate listening to users' and citizens' requests. Stakeholder engagement meetings aim at actively listening to stakeholders in order to understand their needs and requests, but also to know their opinion on the main ESG issues, on the "direction" that companies should take for a

fair and equitable transition towards a sustainable development model. Often, stakeholders' considerations become an active part of the process of identifying material issues, confirming the importance of external stakeholders' opinions in strategic choices.

Moving from the great economic, social and environmental challenges that the territories have to face, multi-utilities can enable and guide the transition towards a new paradigm of sustainable development.

Companies can also give concrete support to schools and hospitals; infrastructural improvements can be made in order to improve Internet connection networks or propose content for students and teachers on specific topics, such as sustainability, or even organize webinars and virtual meetings to make lessons more stimulating. In addition, companies can network and undertake outreach initiatives for hospitals, clinics and institutions to support them in the emergency, either through concrete donations or the development of protective tools for employees and healthcare workers.

Finally, the companies also provide support to the most vulnerable segments of the population, including through initiatives and projects aimed at reducing energy poverty.

While interest in environmental issues among the younger generations is steadily growing, so is distrust of the state institution. The relationship between state, economy and citizens is still being calibrated and the continuous increases in energy consumption, due to the recovery after the pandemic, make our daily life not a little difficult. However, the environmental interventions promoted by the State are slowly becoming visible: the various bonuses allocated in the building and energy sectors are moving the homes of millions of Italians towards an eco-sustainable change. The role of companies such as A2A in making information of this kind more accessible and facilitating the relationship between the state and citizens, suppliers and consumers, the economy and clean forms of energy should be highlighted. Thus begins a first step towards a future of eco-sustainable coexistence.

ANDREA, 21 years old, Siena

2021 IN FACTS

79% OF THE **TOP 100 UTILITIES** IS PRESENT ON SOCIAL

29 JULY **EARTH OVERSHOOTDAY:** EUROPE DEPLETES RESOURCES ONE MONTH EARLIER THAN THE WORLD AVERAGE

7.2 billion euro OF INVESTMENTS IN 2019 FOR UTILITIES, IN TECHNOLOGIES, NETWORKS AND PLANTS TO SUPPORT THE COUNTRY

THE UTILITIES SECTOR SUPPORTS SOCIAL DEVELOPMENT EMPLOYING OVER 153 THOUSAND EMPLOYEES IN ITALY

IMPACTS FOR A2A

IMPACTED SDGs



MATERIAL ISSUE

Listening and involvement of communities

STRATEGIC PLAN @2030

90% sponsorships with initiatives to raise awareness of SDGs issues

SOURCES

Top Utility, Le performance delle utility italiane - VIII edizione, 2020

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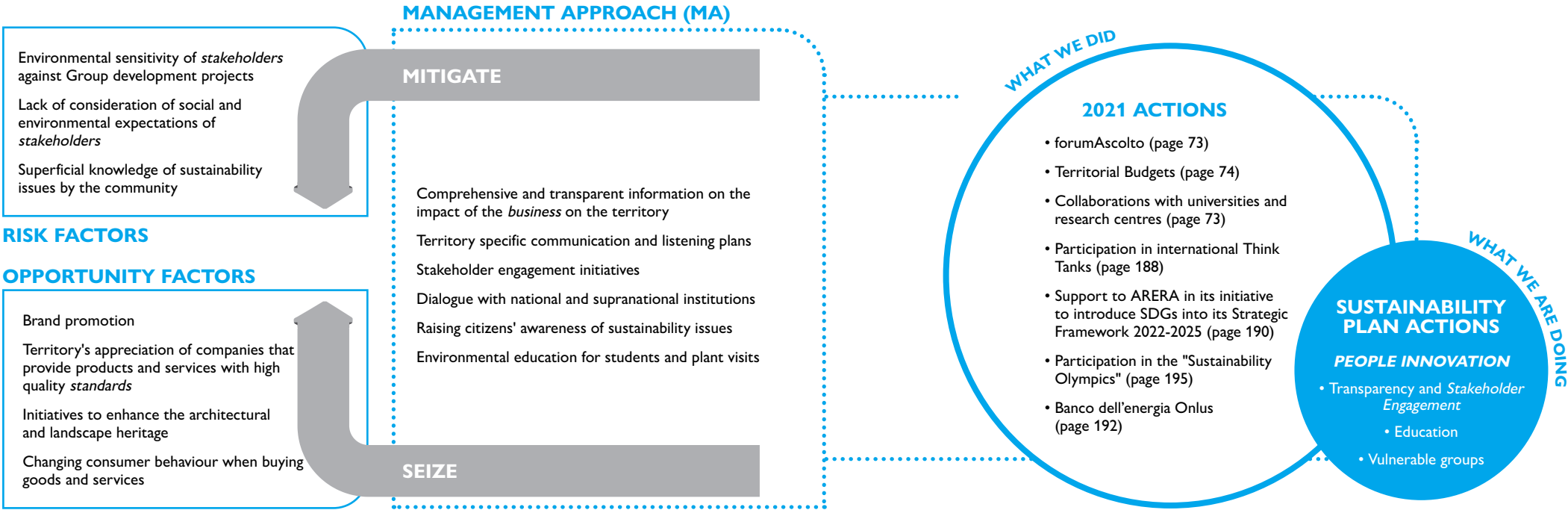
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Listening and Involvement of communities

Involve stakeholders in an active and transparent dialogue, participate in working tables of national and international bodies and institutions and support initiatives and projects to create shared value on the territory and local communities; promote environmental education initiatives in favor of new generations; identify and meet any needs and requirements of stakeholders.



10.2.1 Relations with entities and institutions

The role and nature of the A2A business require constant dialogue and a comparison of notes with the national and European institutions. Relations with bodies and institutions are managed in compliance with A2A's Code of Ethics.

In 2021, the main topics covered were:

- positioning of the top management and representation of the new Business plan towards institutional and association decision-makers;
- monitoring of European legislation in the areas of competence;
- representation of the main dossiers of interest to the Group to the new national institutional representatives;
- monitoring and proposals on regulations for the renewal of hydroelectric concessions in Italy;
- regulations on the exceeding of the protected market on the electricity and gas market;
- proposed legislation on the water cycle;

- discipline of end of waste;
- capacity market;
- legislation concerning the district heating sector;
- development of the **hydrogen** supply chain in Italy;
- awareness of the **plant gap** in the country for an effective transition to the **circular economy**;
- necessary introduction of authorization simplifications to allow the development of **renewable energy sources** and accelerate the **phase out** of coal;
- relaunch of the **White Certificates** tool, also extending its scope of application;
- development of **renewable energy** communities and **self-consumption**, as part of the transposition of EU Directive 2018/2001 on the promotion of the use of energy from renewable sources (Red II).

TRADE ASSOCIATIONS

A2A adheres to more than 100 various trade associations, including:

- **AIRU** (Italian municipal heating association), which aims to promote and disseminate the application and innovation of territorial energy plants, in the sector of district heating and district cooling. Lorenzo Spadoni, CEO of the AEB Group, is president of AIRU;
- **CEWEP** (Confederation of European Waste-to-Energy Plants), the association that brings together the operators of Waste-to-Energy (incineration with energy recovery) plants;
- **Elettricità Futura**, the association of companies operating in the Italian electricity sector, in which the CEO of A2A holds the position of Deputy Chair.
- **EUROELECTRIC**, the sector association representing the common interests of the European energy industry;
- **national Confindustria**, where A2A's Chair and Chief Executive Officer are members of the General Council, and the **territorial Confindustria** of reference with respect to the places where our offices and plants are located, including **Confindustria Brescia**, where A2A's Chief Executive Officer is a member of the General Council, and **Assolombarda Milan, Lodi, Monza and Brianza, Pavia**, where A2A's Chair is a member of the Board of Directors.
- **Utilitalia**, the Federation of companies operating in the public services of water, the environment, electricity and gas. The Chair of A2A holds the position of Deputy Chair of the Association.

Financial Capital

Grants

2.2 million euro contributions to trade associations

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10.2.2 Collaborations with Universities, Research Centers and Think-Tanks

The collaborations between A2A and the university and research world allow a mutual exchange of knowledge and cutting-edge information, both on technical subjects and on topics linked to the insertion of young graduates into the world of work.

As part of its relations with numerous institutional stakeholders, the Group is a member of the main *think-tanks* of national and international importance. In fact, the Group recognizes the great value of the research and debate activities that these entities create, bringing together the academic, political-institutional and business worlds, in order to generate a genuine and constant process of defining public policies and supporting the decisions of institutions, ensuring their quality and sharing.

In this sense, A2A has strengthened its partnerships with Astrid, Aspen Institute, Institute for International Policy Studies, The European House Ambrosetti and is also developing important collaborations with other excellences at European and global level, in order to be increasingly present in the public debate on the themes of Sustainability, Energy and Ecological Transition and Climate Change.

MIP - Milan Polytechnic Graduate School of Management

A2A participates in the *Master in Energy Management* with classroom lectures, company visits and project work; downstream of the Master course, some deserving students have the opportunity to carry out an internship in a company. Also the Company Retipiù, of the AEB Group, sponsored the Master course, financing the participation of resources (4 in 2021) with high potential, in order to train and encourage young talents to dedicate themselves to the world of energy.

RCS Academy

A2A also collaborates with *RCS Academy*, which offers training for young people, managers and professionals through full-time and part-time Master courses. The collaboration between A2A and *RCS Academy* is articulated on three axes of value creation: the participation of the CEO in the Advisory Board, the participation of representatives of the company in the Scientific Committee of the Master courses and the teaching of managers in the faculties and finally, the selection of candidates for a period of internship in A2A.

ELIS

Elis is a non-profit that provides vocational training, with a focus on economically and socially fragile youth and adults without employment. In 2021, *ELIS Innovation Hub* created *Junior Consulting*, a training programme that integrates academic path with technical

and soft skills. A2A took part in a meeting organized with the students of the course related to the themes of innovation and information technology.

ISEO Summer School

A2A participated as a sponsor in the *17th edition of the I.S.E.O Summer School*, entitled "*The Post Pandemic World Economy*". This is an event of international prestige that over the years has seen students from all over the world converge on Lake Iseo. In 2021, the faculty included five Nobel laureates. The initiative, which for the first time took place in digital mode, saw the participation of A2A with the sponsorship of 3 scholarships.

The iL@b

Starting in 2020, the Group has launched an initiative called the "*iL@b Incubator*" (see also the related section on Human Capital) with the aim of offering young trainees and interns, from the academic world, the opportunity to deal directly with the dynamics. The growth path offered is highly experiential and combines the activity carried out within specific projects with research and dissemination on issues related to the practice and methodological foundations of Project Management. The universities involved to date are Bocconi, Cattolica and Milan Polytechnic.

The European House - Ambrosetti

In September 2021, the study "*From NIMBY to PIMBY: Circular Economy as a driver of the ecological and sustainable transition of the country and its territories*", carried out in collaboration with *The European House - Ambrosetti*, was presented. The research identifies the gaps existing in the territories of Italy with respect to waste management and analyzes the plant needs for the organic fraction, for the energy recovery of non-recyclable waste and sewage sludge, and for bioenergy. The investments necessary to overcome the current criticalities were also quantified and the relative economic-environmental benefits highlighted.

Sustainability Development Center

The University of Brescia, the Chamber of Commerce, Industry, Crafts and Agriculture of Brescia, Confindustria Brescia, A2A S.p.A. and UBI-Fondazione CAB, under the patronage of the Municipality and the Province of Brescia, have signed a partnership agreement for the establishment of a *Sustainability Development Center* (CSS). The objective of the collaboration is to accelerate the concrete and transversal implementation of the principle of sustainability in the processes, services and activities of Brescia, laying the foundations for Brescia to be fully recognized as a sustainable model of development and innovation.

10.2.3 A2A and the regulation stakeholders

The A2A Group operates in contexts in which regulation by independent administrative Authorities plays a fundamental role in promoting competition and protecting consumers and users.

The Group adopts a regulatory risk monitoring and management policy in order to adapt its industrial strategies to the opportunities and constraints of the national and Community framework on public services and competition. Monitoring consists of dialogue with institutions such as the **Regulatory Authority for Energy, Networks and the Environment (ARERA)**, the **Antitrust Authority (AGCM)** and technical bodies in the sector, as well as active participation in trade associations. The issues of euro-unitary derivation are also monitored, through participation in the meetings of the relevant Community Associations (including Eurelectric and Cedec), so as to know "in advance" what will be transposed into Italian law.

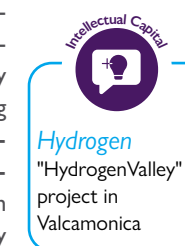
The emphasis on these policy actions and the holistic approach of the *Green Deal*, also taking into account the new package of legislative proposals known as *Fit for 55*, have been fully shared by the Group: specific moments of internal discussion have been organized across the various Departments (*Regulatory Breakfast*) as well as more or less formal appointments with Associations and Bodies.

The Regulatory Affairs and Competition Structure plays an active role in the Group's journey towards the new energy and circular economy paradigm. In particular, in the many occasions of dialogue and interaction with the Institutions, the most interesting issues were addressed, including:

- revision of the electricity market design for more efficient integration of renewable generation;
- evolution of regulations dictated by the transposition of the REDII and Electricity Market Directives, relating to the promotion of renewable sources and more efficient consumption configurations;
- evolution of the *permitting* of renewable sources in light of the innovations introduced by the Simplification Decree Law 2021, as well as the possible development of the regulations concerning the definition of eligible areas, contained in the REDII Decree;
- resolution of the difficulties affecting the White Certificates mechanism;

- need for a stable and certain framework for initiatives which, as in the case of **biomethane** production, represent essential drivers for decarbonization and circularity;
- need for interventions that ensure greater awareness of end customers to accompany them in an informed transition to the free market;
- regulatory and tariff mechanisms to support investments in **upgrading and digitalization of distribution networks**;
- boosting the development of **electric mobility** through an active role in the infrastructure of public recharging and in the provision of the necessary services for users;
- monitoring of how important **PNRR** resources are delivered and their relationship to incentives and regulation;
- participation in **innovative projects** (e.g., Terna pilot projects on synchronous compensators in Brindisi and on virtual production/consumption units) and analyses of projects that can contribute both to the decarbonization of generation facilities and the provision of useful services to the national electricity grid.

Particularly with regard to "frontier" issues, the Structure has been involved in technical working groups and public hearings within the Ministry and ARERA, where emerging issues such as the **development of the national hydrogen supply chain downstream** of the MiSE National Strategy are addressed.



A2A adhered to the circular economy objectives and contributed to the identification of a framework of virtuous rules for businesses and citizens.

The Group's commitment in this sector has particularly taken the form of contributions made, either individually or as part of associations, to issues relating to the resolution of the deadlock in the so-called "end of waste" regulations. With reference to the methodology for defining gate tariffs for plants for the treatment of undifferentiated waste, the Group conducted an in-depth study (in collaboration with Oxera), which led to the identification, as a first best for the sector, of an **asymmetric regulation model** that takes into account the governance and self-sufficiency of the various regions, recognized by the Authority in the tariff method approved for the regulatory period 2022-2025.

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The same approach of attention to environmental aspects and opportunities for infrastructural adaptation has also permeated the engagement activities in the water service.

The Group contributed to disseminate the regulatory culture also internally, as a lever for innovation and transparency of services. For example, monitoring and control tools (such as the Regulatory Review prepared every six months or the Regulatory Agenda drawn up at the same time as the Budget/Plan) have been implemented and are

constantly updated in order to consider the potential impact of regulation on Group companies and to ensure constant dialogue with the Business Units.

A2A has also supported the Regulatory Authority for Energy, Networks and the Environment (ARERA) in its initiative of wanting to introduce in its Strategic Framework 2022-2025 metrics for assessing the environmental sustainability of regulatory measures and their contribution to achieving the objectives of the SDGs 2030 Agenda set by the UN.

10.2.4 A2A and relations with Territorial Committees and Consumer Associations

In order to initiate a debate on the open issues of the ecological transition, for updates and developments in business activities, A2A maintains relations with representatives of consumer and environmental associations and with citizens' committees. Constant dialogue with citizens and civil society, organized in its associations, committees and think-tanks, represents a strategic element for the A2A Group, as it enables the main needs and expectations of stakeholders to be identified and understood. In 2021, Regional Affairs was restructured in order to make it more solid and capable of responding in a timely manner to the numerous stakeholders' requests: thus continuous monitoring between the Group and the external environment is ensured, an action consistent with the strategic plan based on the principles of the administrative procedure and which takes the form of combined top-down and bottom-up activities, in order to improve the national positioning on the issues of interest.

In addition, the policy - already applied to all Group companies - was updated with the introduction of a procedure defined for the correct management of inspections, questions and requests for data and information from institutional stakeholders.

Advocacy actions on the territories

A2A's commitment to Sicily's ecological transition continued in 2021, through a renewed collaboration with the regional Legambiente: the Group is actively involved in the "Sicilia Munnizza Free" and "Sicilia Carbon Free" campaigns, in order to raise awareness among Sicilian citizens of the issues of innovation in waste treatment and the need for investment in the production of energy from renewable sources.

In addition, the A2A Group is increasingly investing in relations with the territories of Lazio, Calabria and Sicily in order to initiate dialogue with the local communities: the presence of active and aware stakeholders stimulates the search for new forms of involvement and debate. Activities in these areas aim to reduce information asymmetries and promote better citizen participation in decision-making.

Lastly, with the territorial consumer associations and local administrations, round tables are underway for the drafting of the "Quality charters of the environmental sanitation services" in the municipalities where AMSA and APRICA operate.

A2A was also present at the 38th Meeting of ANCI - the National Association of Italian Municipalities - in Parma: the aim of the event was to bring together directors, professionals, mayors, businesses and government representatives on the main issues of interest to Italian municipalities.

In the third quarter of 2021, in view of the economic situation linked to the energy crisis and the consequent increase in the price of energy supplies, A2A and its subsidiaries made available to their customers forms of instalment of the full amount of their bills with the utmost flexibility, according to the specific needs of customers, without the application of interest and with the consequent suspension of detachment actions, even before the due date of the bill, and contacts were initiated with Consumers Associations to share the initiatives implemented to support customers, contacts which subsequently led to an agreement in February 2022.

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ADR - Out-of-court dispute resolution

On April 7, 2021, the Joint Conciliation Protocol was signed, for the first time in Italy, between the seven major companies in the energy, water and district heating sectors, including A2A, and the 20 Consumer Associations of the National Council of Consumers and Users (CNCU).

The Protocol renews and strengthens the commitment to a tool that provides consumers with an effective means of protecting their rights without recourse to legal proceedings and provides for joint initiatives aimed at improving awareness and use of joint negotiation as an independent, rapid and free process.

During the year, the activity commenced with the establishment of the negotiation protocol signed between A2A and the national consumer associations for the promotion of multi-service joint conciliation continued. In 2021, peer conciliation files received increased 55% over the previous year. In total, the conciliation secretariat of the A2A - Consumers Association ADR Body received 48 requests on behalf of gas, electricity and water customers, of which 40 concerned A2A Energia, 7 A2A Ciclo Idrico and 1 Unareti, linked mainly to the metering of consumption and billing.

As in previous years, in compliance with the provisions contained in the Integrated Conciliation Act (TICO), training courses for conciliators in the energy, district heating and water sectors were organized through a platform managed by Consumers' Forum.

With regard to the ARERA Conciliation Service managed by Acquirente Unico, requests increased by 27% compared to the previous year. The number of files received was 155, of which: 120 concerning A2A Energia, 22 A2A Ciclo Idrico, 1 Azienda Servizi Valtrompia, 11 Unareti and 1 Lumenergia. The legislation also provides for the distributor to be called into conciliation when the discussion concerns technical data and is necessary and indispensable for the proper and effective handling of the dispute. In these cases, the Authority has provided that the convened distributor has an obligation to participate in the procedure. Unareti, as the distribution service operator, received 142 mandatory convocations as a technical aid.

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BANCO DELL'ENERGIA ONLUS

The tender, promoted in collaboration with Fondazione Cariplo, aims to support families in economically and socially vulnerable situations throughout the Lombardy region. The first two editions of the tender, for which Banco dell'energia raised a total of 2 million euro, doubled by the Cariplo Foundation, allowed the selected bodies to intercept fragile people at an early stage and facilitate their reactivation, supporting them in paying for urgent expenses (such as the bills of any energy operator), however trying to provide broader responses that take into account the issues related to work and social ties. In the first two editions alone, a total of 10,000 people were supported who were able to count on personalized paths and initiatives to overcome the situation of temporary difficulties, strengthen relevant relationships within their own community and when possible, take action to "return" to the benefit of the community. The projects of the first editions involved low-income households, at risk of slipping into poverty and with a high percentage of dependent minors (43%), which represent the primary target of the tender. Some projects, in particular, were heavily targeted at single women with children.

In 2021, the 16 projects awarded the second edition of the "Doniamo Energia" tender, launched in 2019, are nearing completion, while the 17 projects awarded the third edition in 2020 are continuing.

The third edition of the Tender was addressed to the networks supported within the two previous editions, and therefore already able to intervene quickly especially to support families that suddenly slipped into poverty as a result of the Covid-19 emergency in the Lombardy territory. In order to allow an in-depth analysis of the data, the tenders also provided for careful monitoring, from which it emerged that the economic indices concerning employment and resources (debt, income and access to structural aid) of the families involved all improved significantly after the intervention related to the tenders.

Banco dell'Energia has also promoted a new project linked to energy poverty, with the aim

of alleviating temporary needs related to the payment of utilities and increasing awareness of energy consumption. "Energy in the Suburbs", in collaboration with NextEnergy Foundation and Signify, has in fact contributed, with the support of a network of local Listening Centers, to help about 100 households in vulnerable conditions. The people and families involved were offered concrete economic help to pay their electricity and gas bills from any energy operator: thanks to a fund of 30,000 euro , each family was given about 7 months of electricity or 4 months of gas. Together with this economic aid, with the aim of achieving goals with medium-long term effects, a training and analysis of the beneficiaries' consumption has been started, through the involvement of the operators of the TED network (Tutor for domestic energy), trained thanks to the Aisfor platform. Households involved in the consumption training were offered a kit of energy-efficient light bulbs, useful for improving efficiency in the use of electricity. Finally, representative indicators on the condition of housing and consumption of the households involved were collected through anonymous questionnaires. Aggregate data will be provided to the Italian Energy Poverty Observatory for compilation of the annual report. In collaboration with Aisfor, a handbook on good practices for reducing consumption was also produced, translated into 6 languages (Italian, English, French, Spanish, Arabic and Chinese) and distributed to the public.

Fundraising is always active and aimed at all citizens, companies, A2A Energia customers and employees of Group companies. The latter, in particular, gave a positive response both to the numerous fundraising campaigns and by offering their free time in various initiatives proposed during the year, giving a sign of sensitivity and sharing of the great social value of the initiative.

Banco dell'Energia was the exclusive Charity partner of the "Corsa dei Tre Parchi" and the "Walking Day" held in Milan in September and October 2021 respectively: two non-competitive sporting events that raised funds through a donation to the Banco for each participant.

For the occasion, A2A employees were also involved, some competing and some offering their support as volunteers during the days of the competitions. In addition, it was charity partner of the exclusive AEMetropolis evening, organized by Fondazione AEM, which was held on September 22 at the South Receiving Station in Milan. For further information www.bancodellenergia.it

Finally, on December 14, a new phase of the Banco dell'energia was launched, with the opening of a national perspective and the aggregation of authoritative stakeholders, with reference both to associations and the third sector, and to the world of companies operating in the energy market. The

commitment, made with the promotion of the Manifesto "Together to fight energy poverty", requires a consolidation of activities for the coming years. The following priorities for action have been selected on which the Energy Bank activity will focus:

- Awareness-raising among policy makers and the public
- Definition of Policies and intervention tools
- Energy Efficiency Education
- Active support for national and territorial mapping and monitoring of fuel poverty, including official measures
- Promotion of territorial projects with the contribution of public/private/third sector organizations.



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10.2.5 Investments in the community

The ability to respond in a targeted and effective manner to the *expectations of the Community* has always been one of A2A's strengths and a distinctive element. A concrete commitment that has led over time to significant investments in sponsorships, donations, contributions to theatrical institutions and the AEM and ASM Foundations.

FOUNDATIONS OF THE GROUP

For the year 2021, the **AEM Foundation** has committed to a three-year plan of projects in line with the *SDGs* that it shares with the A2A Group. The areas of activity in which the Foundation operates are environmental education, the protection and enhancement of AEM's historical heritage, research, specialized training and charitable giving, particularly in the areas of Milan and Valtellina.

The **ASM Foundation** is based in the territories of Brescia and Bergamo, supporting the activities dedicated to social aspects, the promotion of art and culture, as well as support for training and environmental protection.

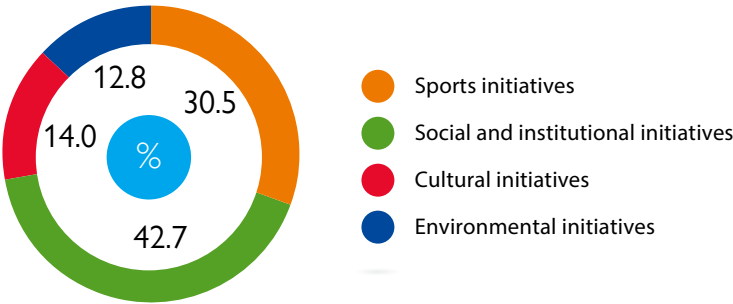
For more information visit the websites <https://www.fondazioneaem.it/> e <https://www.fondasm.it/>

Through its sponsorships, A2A wishes to contribute to the enhancement and promotion of the cultural and environmental heritage of the areas in which it operates. The commitment is developed in various aspects, with support for large and small initiatives in the sports, cultural, environmental, social and institutional areas, promoting and consolidating the image of A2A *Life*

Company and the Group in the areas where it is present. The **Group's total investments for the Community amounted to approximately 4.7 million euro.**

Specifically, **sponsorships** of sports, social, environmental and cultural activities in favour of the territory in 2021 instead come to approximately 1.1 million euro.

Figure 59 Breakdown of sponsorships by area of activity



In 2021, there were several initiatives in which A2A participated. Among these we highlight the collaboration with the **Italian Alliance for Sustainable Development (ASVIS)** which within the "*Festival of Sustainable Development*" with the support of A2A produced the innovative research "*SDG20: measuring sustainable development in the G20 countries*", an analysis of the positioning of the G20 countries with respect to the *Goals of the 2030 Agenda*. The document was presented on October 7, 2021 during

the central event of the Festival of Sustainable Development, which took place from September 28 to October 14, 2021 throughout Italy and online.

In 2021, the Group joined the initiative "**Adopt a Statue**", a project conceived and promoted by the Veneranda Fabbrica del Duomo di Milano, which stems from the need to enhance the value of a selection of works kept at the marble workers' site, sculptural elements removed from the Monument for conservation purposes. Through this initiative, it

is possible to restore the ancient splendour of some of the works that cannot be used, and they will be able to return to life and tell the story of the Duomo of Milan. With its support, A2A adopted a Duomo gargoyle, "**Mermaid Riding a Sea Monster**."

A2A also took part in various initiatives in the environmental aspect such as, for example, collaboration with Legambiente Sicilia, through the initiatives *Sicilia Carbon Free*, *Forum Qualenergia* and *EnergyForum*, while, in collaboration with the Associazione Amici della Terra Onlus, A2A supported the **13th National Energy Efficiency Conference**. A2A's presence at the celebrations for the **51st World Earth Day** held on April 22 was also significant, with a speech during the RaiPlay digital marathon dedicated to the educational project "*Sustainability Olympics*".

There are also many sports initiatives that A2A promotes in the areas in which it is present, including the "*blue derby*", a match between Pallacanestro Brescia and New Basket Brindisi, both supported by A2A.

The initiative, of great social importance, saw the two teams united in the fight against bullying. Before the start of the match, the players took to the pitch wearing a T-shirt made for the occasion with the logos of both teams, of A2A and of the non-profit association "*MaBasta*" (*Movimento Anti Bullismo Animato da Studenti Adolescenti*), a movement of young and very young people involved in the fight against the phenomena of bullying and cyberbullying.

A2A has made a contribution to support the initiative of the *Spedali Civili di Brescia* which, in order to cope with the health emergency, has set up a Covid-19 drive-through center to ensure that swabs can be carried out in total safety while remaining in the car. This was later flanked by the vaccination hub and space for the Covid medical unit.

The AEB Group also supported important initiatives in the territory, such as the *Ettore Pozzoli International Piano Competition*, and sport events, with particular attention to sport at competitive level for disabled people. In concomitance with the *Ettore Pozzoli International Piano Competition*, RetiPiù realized a specific artistic project to qualify a building in the historical center, with the announcement of a contest addressed to Italian and international street artists on the theme "*All the energy of Music*".

Scholarships

Each year, the company holds a competition to award 100 scholarships to the children of Group employees in the Brescia and Bergamo areas, divided as follows: 25 for students who have graduated from high school, 50 for students in intermediate high school classes, and 25 for students with a middle school diploma. Also this year, A2A, in collaboration with the Intercultura Foundation, has made available **25 scholarships for 4-week summer programmes abroad**, giving the winners the opportunity to stay and attend language courses in Europe, America or Asia. Among the destinations of the year: China, India, Japan, Argentina and Canada.

The Municipality of Cremona, LGH S.p.A. and Politecnico di Milano - Cremona Territorial Campus have signed an agreement to support two scholarships and a research project on the topics of energy transition and artificial intelligence. LGH will support through two scholarships of 5 thousand euro each the attendance or graduation thesis of deserving young people enrolled at the Politecnico - Cremona Campus; the support for the two research projects has a total value of 50 thousand euro.

Civil Protection

In 2021, the Group's Civil Defence Volunteer Association continued its commitment to the community, which, since March 2020, has been particularly deployed in support of the **pandemic emergency**. Support services for Covid-19 vaccinations continued at the Hubs of Milan, Brescia and Valtellina, as well as the distribution of medical supplies at Milan hospitals, in coordination with the National Department and the Civil Protection of the Lombardy Region. In addition, services were provided to relocate Air Force physicians to travelling vaccine hubs in Mantua. On August 5, during the flooding of Lake Como, the volunteers worked in the town of Laglio to clear the streets invaded by debris and mud. Thanks to the contribution of the AEM and ASM Foundations, a new 100 KVA generator was purchased and will be used during emergencies. In 2021, on the occasion of the 45th anniversary of the Association, the volume "*Men and Waters*", a duty of memory and ecological transition, was reissued under the sponsorship of the AEM Foundation.

10.2.6 Education and training

A2A deals with environment, water and energy, necessary conditions for the life of the planet and people. For this reason, it defines itself as a *Life Company*. Being a *Life Company* implies a great commitment: acting responsibly but also creating a shared culture of respect and knowledge of the technologies that allow us to safeguard the Planet.

A2A has been investing for over 40 years in communication with the new generations; in particular, the group has identified Generation Z as the preferred target for communicating its commitment to the environment. This generation is committed to taking active action to protect the planet and needs channels to give voice to these demands.

During 2021, A2A involved around 44,000 students and teachers (+78% compared to 2020) in environmental education and sustainability projects at a national and territorial level. Innovation and digital have been the keys to respond to the new needs of the school: in fact, most of the environmental education activities have been delivered remotely, also to meet the needs of the classes in DAD (didactics at a distance). The territorial projects were mainly focused on the development of greater awareness of the environment and understanding of good practices related to waste reduction, separate collection, recycling, circular economy, including through gaming activities.

the commitment to teachers continued, to whom the training courses "A map to navigate the present" and "Towards 2050: with schools for a sustainable future" were addressed, with the aim of providing them with concrete and innovative tools for classroom teaching accompanied by experts, researchers and authoritative speakers. More than 2,100 faculty were involved in 2021 and appointments will continue in 2022.

Also the Company Gelsia Ambiente, belonging to the AEB Group, carried out some environmental education projects in schools. The projects involved primary and secondary school classes, involving 265 classes for a total of 6,000 students and teachers.

Earth Day and the launch of the Sustainability Olympics

On April 22, on the occasion of World Earth Day, A2A was present at the second edition of #One-PeopleOnePlanet, the marathon in live streaming on RaiPlay to launch the "Sustainability Olympics" project, aimed at students in secondary schools throughout Italy, which will end in the spring of 2022. Children were educated on the Sustainable Development Goals with digital tools (podcasts and short videos) on their favourite social media channels; they were then asked to make short videos to tell their peers about their vision for a sustainable and inclusive future.

EnergiaSchool - Energy efficiency explained to children

The project, aimed at all Italian schools, engaged students on the themes of efficiency and energy saving, using interactive tools such as quizzes and energy simulators, to promote both the creation of multimedia works and energy analysis and redevelopment projects of school buildings. The 9 winning classes nationwide were awarded vouchers to purchase school supplies. The project was carried out in synergy with the A2A Energia *PensoGreen* educational initiative aimed at families to raise their awareness of environmental sustainability.

Sensors for the schools of Brescia

323 environmental sensors have been installed in the classrooms of 32 schools in the city of Brescia. The goal is to monitor indoor air quality in classrooms by measuring three parameters (humidity, temperature, CO₂) and provide an advanced digital teaching tool for environmental education. In short, the sensors are able to signal when it is appropriate to open the windows to change the air, but also when it is appropriate to close them to avoid wasting heat and energy.

National Digital Contest #energyschool

The project, aimed at all Italian schools, engages children on the themes of efficiency and energy saving, using interactive tools such as quizzes and energy simulators, to promote both the creation of creative

videos and the development of energy analysis and redevelopment projects for school buildings. The 9 winning classes throughout Italy (provinces of Brindisi, Varese, Milan, Salerno, Nuoro, Catania, Brescia, Venice and Piacenza) were awarded vouchers for the purchase of school supplies for a total prize pool of 6,900 euro.

#All4climate - Think sustainable and design circular

A2A was a partner of All4Climate - Italy 2021, a schedule of initiatives launched by the Ministry of the Environment and dedicated to the fight against climate change; it took part in the debate at the Milan Pre-COP (September 30-October 2), which preceded the Glasgow COP26 (26th United Nations Conference on Climate Change). Among the various initiatives carried out and supported by A2A,

on October 1, in collaboration with Amsa, the University of Milan-Bicocca, the Milan Polytechnic and *Plug&Play*, the digital event "Think sustainable and design circular" was organized, which saw some of the company's managers and university professors talk to the young winners of a challenge launched by A2A on the themes of the circular economy and innovation. The event involved approximately 300 faculty and students.

Broken cities

In 2021, A2A took part, as part of the *European Feltrinelli Camp, Broken cities*, in a two-day event of meetings and debates aimed at reflecting on a proposed urban agenda designed to reduce the social gaps and fractures present in cities. Some of A2A's front lines have also taken part in a number of working tables linked to the social and environmental regeneration of cities.

10.2.7 External communication

The year 2021 was characterized by several interventions on the Group's digital properties, both in terms of graphic restyling and redesign and integration of new digital services.

The Corporate website has undergone profound transformations with the aim of explaining and narrating the Group's new business plan, the new "Life Company" positioning and the new management. Consistently, the entire presentation of the company, its business model, innovation model, *people strategy* and sustainability model has been reorganized through a navigable tool for the discovery of the objectives and sustainability strategy. At the same time, the website dedicated to the world of School has been completely renewed and a mini-site dedicated to the world of Innovation has been created, to encourage young start-uppers to collaborate with the Group.

During 2021, Press Office activity produced over 400 communications to the media, up about 7% on the previous year. There were also about 250 opportunities to meet with journalists (mainly remotely), amongst interviews and one-to-one dialogues, press conferences and press visits.

The Group is present on the following social channels: *Facebook, LinkedIn, Twitter* and *Instagram*. Communication through the 10 active social profiles, with a fan base of over 297,000 users, up 15% compared to 2020, allows more direct contact with citizens and customers, informing them about central issues for the Group such as, for example, the energy transition, the circular economy, sustainability. In addition, it is possible to initiate *social media caring* flows to promptly intercept the needs and reports to be transmitted to *customer care* channels: a total of approximately 4,400 requests received from users have been resolved. Finally, the activity allows to know and collect the main topics discussed on the web, taking cues to design new services and products.

90% of the contents of communications resulting from Press Office, Web and Social activities are related to ESG themes: in particular, 73% of the contents are related to Environmental Sustainability.

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10.3 Relations with suppliers

REFERENCE CONTEXT

Improve costs and service levels in the Supply Chain

The pandemic has brought to light the need to make global supply chains, and thus those of individual companies, increasingly resilient. The supply crunch caused by the Chinese lockdown in early 2020 and the subsequent demand contraction in the following months highlighted all the critical issues of a globalized supply chain. With the resumption of operations in 2021, many of the problems have not been resolved but the way they are handled has changed.

Supply chain, today, is seen as a business lever to mitigate risk and capture market opportunities. The benefits of sustainable sourcing, both environmentally, socially and technologically, spread throughout the company's value chain. Today, organizations must be accountable to their stakeholders for the ways in which they interact with their suppliers: in this context, it becomes crucial to understand what is being purchased - products with specific sustainability characteristics, products made with environ-

mentally sustainable materials or with production methods that respect the environment and workers and are also safe for end users - and from whom; in order to meet the expectations of their stakeholders, organizations must design and implement processes, practices, policies and reporting systems, with important consequences also on the business model.

A sustainable supply chain allows for a reduction in total supply costs, a reduction in risk throughout the supply chain, more and better involvement of the suppliers themselves, and improved brand perception by users.

Research by Ecovadis shows that 69% of respondents (to the questionnaire) take into account the sustainability performance when selecting their suppliers.

Of one thing we are certain: maintaining good relationships with those around us is essential. If we looked at the relationship between businesses and suppliers, nothing would change. Any sustainable business that wants to increase its relational capital should surround itself with suppliers who fight the same battles and believe in the same values. Improving for yourself, the environment and your workers would be the ideal solution, a "win-win" solution for everyone.

Martina, 22 years old, Sassari

2021 IN FACTS

70% OF UTILITIES ASKS SUPPLIERS TO ADHERE TO ESG CRITERIA

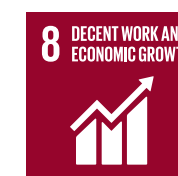
SUSTAINABILITY IN THE SUPPLY CHAIN IS A MEGA TREND TO BE MONITORED GLOBALLY (MSCI 2022 TRENDS TO WATCH)

DEGLOBALIZATION AS A STRATEGY TO MITIGATE THE RISKS OF AN EXTENDED SUPPLY CHAIN

20% OF COMPANIES REPORT EMISSIONS FROM THEIR SUPPLY CHAIN (SCOPE 3)

IMPACTS FOR A2A

IMPACTED SDGs



MATERIAL ISSUES

Responsible management of the supply chain

STRATEGIC PLAN @2030

90% of orders to suppliers evaluated with ESG indicator

SOURCES

Ecovadis, *Sustain 2021: How We Can Rethink and Rebuild Global Supply Chains*, 2021
Ecovadis, *Sustainable Procurement Barometer Key Findings*, 2021
Top Utility, *Le performance delle utility italiane - 9th edition*, 2021
MSCI, *ESG Trends to Watch*, 2022
Deloitte, *Supply Chain Sfide e opportunità, da oggi in poi*, 2021
CDP, *Global Supply Chain Report*, 2021

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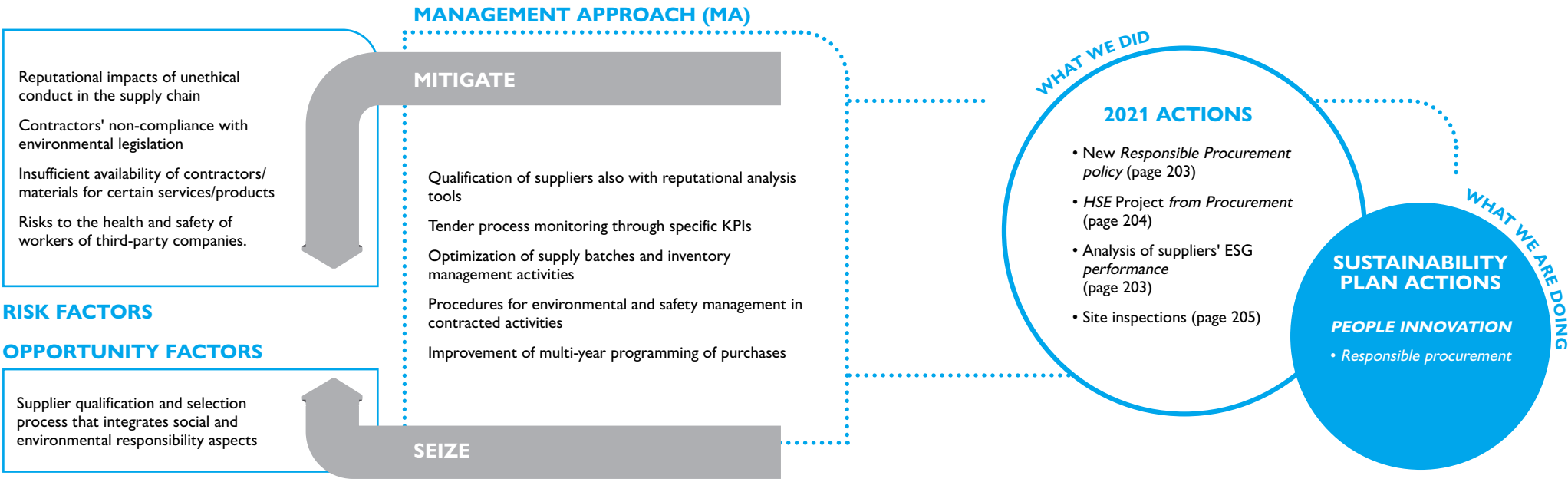
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Responsible management of the supply chain

Provide quality, safe and reliable services and act flexibly and promptly in responding to customers' expectations; implement actions and systems to manage risks and emergencies to ensure continuity of service; adopt correct communication and marketing practices; commit to the proper security management of customer and employee data, with a view to protecting privacy. Development and promotion of energy efficiency and green mobility products and services for customers



Relational capital - suppliers

In 2021, 13,096 orders were issued by Group companies for supplies, services or works, for a total amount of about 2.1 billion euro, of which about 95.3% for Italian suppliers. In 2021, 69% of orders was awarded by tender.

Figure 60 Order value by Business Unit

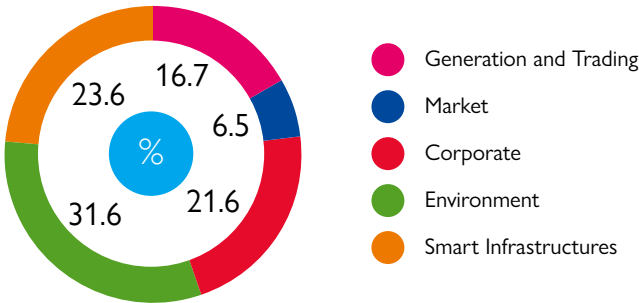
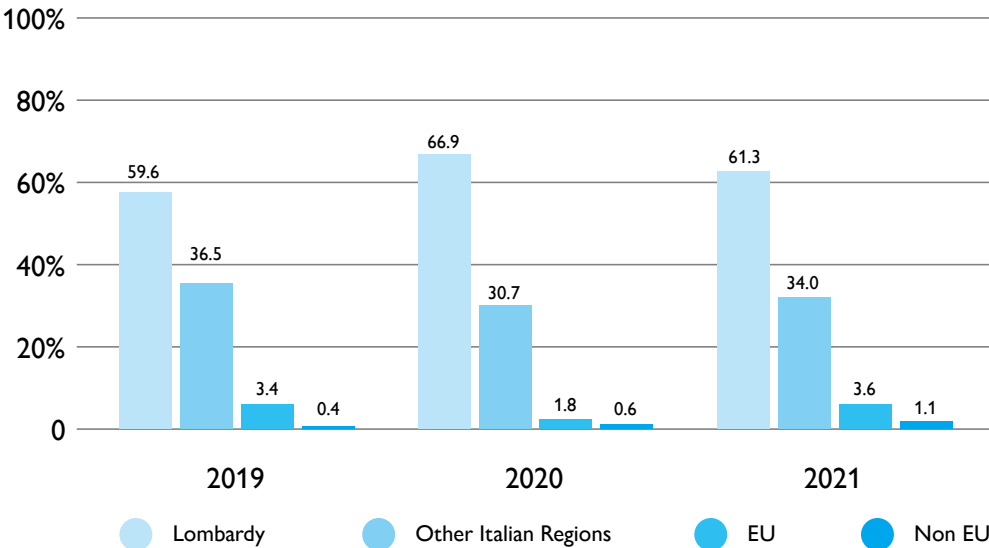


Figure 61 Geographic breakdown of orders (percentage of the total)



PRICE TENSION

Macroeconomic trends in 2021 have created major tensions in the prices of key commodities that affect the entire supply chain, thereby significantly altering the supply-demand balance of resources. There are repercussions on their availability, prices and delivery times. This is an external risk of a macroeconomic nature and affects the productive world as a whole. The Group has a number of impact mitigation measures in place (e.g. increasing inventories of strategic products and ongoing monitoring of the use of material purchase agreements linked to index prices).

10.3.1 Responsible management of the supply chain

For years, the Group has adopted a specific system for assessing the suitability of suppliers, in order to establish lasting business relationships with suppliers who apply high standards of personal health and safety, environmental protection and technical quality. The qualification process, regulated by an internal procedure, is fully compliant with the requirements of the law and the Group's Code of Ethics (in compliance with the organizational model pursuant to Legislative Decree 231/2001).

At the same time, as the opening of tenders called by the Group, A2A selects and qualifies suppliers in a specific Supplier Register. The supplier qualification process - for the product categories identified as significant for safety and environmental purposes - includes technical and financial assessments, the verification of specific environmental and safety requirements, the verification of the validity of any certifications/required registrations and the supplier's accident rates. If deemed necessary, on-site verification (Audit) of the declared requirements may be carried out.

Companies wishing to be accredited on the A2A Supplier Portal are required to sign the **Integrity Pact** (with consequent adhesion to the Group Code of Ethics). Failure to sign will result in the supplier being unable to apply for registration. Each qualified supplier is given a global score, calculated as a weighted average of:

- **Vendor Rating Provisional**, calculated on the basis of information collected during qualification (certifications obtained, financial rating, etc.);
- **Vendor Rating Final**, obtained from the evaluation of performance in the execution of the contract.

The global score of the supplier has acquired, over time, an increasingly relevant weight for the definition of the **Vendor List** to be invited to tender or during the process of awarding the tender itself. Usually, the qualification obtained is valid for 36 months; if the global score assigned to a supplier highlights criticalities, the Group reserves the right to take steps such as suspending qualification or starting an audit.

Figure 62 Qualified A2A Group suppliers by certification held (number)

	2019	2020	2021
ISO9001	1,721	2,239	2,110
ISO14001	593	731	816
OHSAS18001	507	640	670
SA8000	142	192	177
Respondents to the TenP (Global Compact) questionnaire	188	223	-
Total suppliers with at least one certification	2,767	3,018	3,451
of which activated with order	1,092	1,113	1,239

In 2021, 3,451 suppliers had at least one quality, environment and safety certification, 1,239 of which were activated with at least one order.

The value of orders issued by the A2A Group to suppliers with at least one certification amounts to approximately 86% of the total value.

During the qualification processes for registration or renewal, 1,712 suppliers were evaluated on social issues and 1,719 on environmental issues.

For some product sectors, suppliers are assessed also in relation to their reputational risks, with the assignment of an **Integrity Risk Rating**, the positive rating of which determines permanence in the register. Declarations made during the qualification process can be verified at the suppliers' premises. Audits may also be requested in the event of serious non-conformities emerging during the execution of contracts, in order to identify the causes of non-performance, therefore exploring critical areas and the **identification of improvement actions**.

Managing business risks also involves identifying, managing and mitigating supply chain risks. In fact, "critical" suppliers are defined as those who are likely to cause a negative impact on the Group due to social, environmental and/or economic misconduct. Relevant criteria that identify such suppliers are determined by:

- worsening of the economic/financial conditions highlighted by info-providers and provisions;
- rating of ineligibility following the reputational checks carried out (including violations and measures with an impact on safety and the environment);
- serious contractual and/or compliance violations.

Two levels of risk have been identified, based on which specific measures are taken. The "watchlist" level requires the supplier to be under temporary observation; however, it can participate in tenders and stipulate new contracts but the choice must necessarily be justified. The "blacklist" level, on the other hand, does not allow the supplier to be invited to tenders and to submit new applications for qualification.

Responsible Procurement Policy

During 2021, the new Policy relating to **Sustainable Procurement** was drawn up, in line with what was stated in the A2A Strategic Plan 2021-2030, and with the aim of improving ESG performance throughout the supply chain.

The Policy represents the concrete commitment to the promotion and support of all the values and principles affirmed by international institutions and conventions regarding sustainability along the supply chain and rewarding suppliers who are committed to this purpose. In particular, the Policy clarifies and translates into actions the sustainability objectives of the Supply Chain such as: reduction of the environmental impact on the supply of materials/goods/services; staff training on sustainability issues; and *compliance* and commitment to the principles of Code of Ethics and Human Rights Policy.

Analysis of suppliers' ESG performance

To assess the sustainability of the supply-base and, in particular, for the assessment of ESG risks, the Group has entered into collaboration with an ESG info-provider, market leader in supply chain sustainability assessments.

In fact, a dedicated platform has been made available for the distribution of structured questionnaires to the suppliers involved for the evaluation of a sustainability index/score.

The model of construction of the ESG rating takes into account the *type of company* (sector of activity, country in which it operates, company size) and of 4 *ESG pillars* (environment, labor and human rights, ethics and sustainable procurement) and returns an overall score based on 100, which represents a weighted average of the above dimensions.

During the year there was a first mapping of the supply-base of A2A involving 153 suppliers in the campaign covering approximately 50% of the 2021 order. The average rating obtained by the sample was approximately 57/100, compared to 44/100 for the average industry ratings.

The timely verification of the rating of the Group's strategic suppliers will represent a further important criterion for the identification of the **critical supplier in the ESG sphere** functional to the predisposition of monitoring and ad hoc actions to make the supply chain even more sustainable.

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PILOT PROJECT: A NEW SHARED PROCESS TO REDUCE HSE RISK

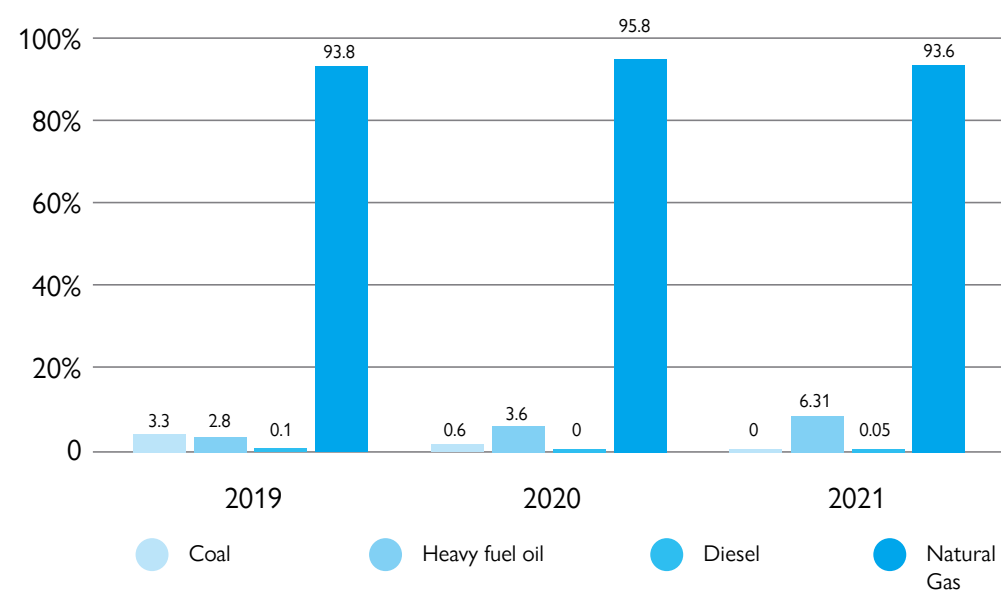
In order to further reduce the risk of selecting critical suppliers in the environmental and safety field, in 2021, the partnership with the HSE function was strengthened, which actively participates in the sourcing tables for the selection phases of the suppliers to be involved in the tenders (so-called shared process) concerning a product category with a high health & safety impact.

10.3.2 Fuel suppliers

In addition to expenditure on supplies, works and services, approximately 2.9 billion euro was spent to purchase fuels (94% of which was natural gas) used by the Group's power plants or delivered to end customers. As a result of the Group's decarbonization plan, no coal purchases were made in 2021 while diesel and HFO account for about the remaining 6%.



Figure 63 Value of orders issued by fuel type (% of total)



10.3.3 Site management

Attention to safety in the workplace, not only in its own activities, but throughout the supply chain, is increasingly an issue of fundamental importance for the Group. For this reason, A2A, and, in particular, the Smart Infrastructures BU, began in 2016 to carry out rigorous checks on compliance with the tender specifications and on compliance with the provisions on occupational health and safety (Legislative Decree 81/2008) and environment (Legislative Decree 152/2006).

In 2021, the Group carried out inspections of 104 contractors and 44 subcontractors (+42% vs 2020), performing a total of approximately 5,500 inspections (+47% vs 2020); to ensure constant supervision, the same site is inspected several times throughout its duration, even on a weekly basis.

The inspection visits were carried out on a sample of roadworks sites selected in order to en-

sure an adequate number of inspections for both higher and lower value sites. The inspections were carried out with the help of specific check lists, the results of which are subsequently shared with the company structures concerned. The check list consists of three fault levels (RED = blocking, ORANGE = severe and YELLOW = relevant). In the event of red anomalies, the site managers are immediately alerted to take appropriate countermeasures involving the contractors as soon as possible.

In 2021, approximately 550 inspections (or about 7% of the total) showed at least one anomaly (yellow, orange, or red). 94% of the red anomalies were subject to corrective action.



Figure 64 Site inspections - summary

	2019	2020	2021
Number of inspections carried out	2,453	3,961	5,522
No. of checks performed	72,416	118,450	179,017
% inspections with at least one anomaly detected	20.1%	11.4%	7.2%
Companies concerned	Unareti, A2A Ciclo Idrico, A2A Calore & Servizi	Unareti, A2A Ciclo Idrico, A2A Calore & Servizi	Unareti, A2A Ciclo Idrico, A2A Calore & Servizi
Areas concerned	Milan, Brescia and Bergamo provinces and municipalities in the Po and Abruzzo areas	Milan, Brescia and Bergamo provinces and municipalities in the Po and Abruzzo areas	Milan, Brescia and Bergamo provinces and municipalities in the Po and Abruzzo areas
Corrective actions planned	Constant information on the results of inspections to all parties concerned.	Constant information on the results of inspections to all parties concerned.	Constant information on the results of inspections to all parties concerned.
No. of corrective actions taken	238	138	114
Results expected	Minimise anomalies with a consequent improvement to safety, reduction in environmental impacts, improvement in quality of works and guarantee of complete compliance with current standards	Minimise anomalies with a consequent improvement to safety, reduction in environmental impacts, improvement in quality of works and guarantee of complete compliance with current standards	Minimise anomalies with a consequent improvement to safety, reduction in environmental impacts, improvement in quality of works and guarantee of complete compliance with current standards

* The systematic and tracked reporting activity was introduced in May 2017.



Independent auditors' report on the consolidated disclosure of non-financial information in accordance with Article 3, par. 10, of Legislative Decree 254/2016 and with Article 5 of CONSOB Regulation adopted with Resolution n. 20267 of January 18, 2018 (Translation from the original Italian text)

To the Board of Directors of
A2A S.p.A.

We have been appointed to perform a limited assurance engagement pursuant to Article 3, paragraph 10, of Legislative Decree 30 December 2016, n. 254 (hereinafter "Decree") and article 5 of CONSOB Regulation adopted with Resolution 20267/2018, on the consolidated disclosure of non-financial information of A2A S.p.A. and its subsidiaries (hereinafter "A2A Group" or "Group") for the year ended on December 31, 2021 in accordance with article 4 of the Decree approved by the Board of Directors on March 17, 2021 (hereinafter "DNF").
Our limited assurance engagement does not cover the information included in the paragraph "European Taxonomy" of the DNF, that are required by art. 8 of the European Regulation 2020/852.

Responsibilities of Directors and Board of Statutory Auditors for the DNF

The Directors are responsible for the preparation of the DNF in accordance with the requirements of articles 3 and 4 of the Decree and the "Global Reporting Initiative Sustainability Reporting Standards" defined by GRI - Global Reporting Initiative (hereinafter "GRI Standards"), identified by them as a reporting standard.

The Directors are also responsible, within the terms provided by law, for that part of internal control that they consider necessary in order to allow the preparation of the DNF that is free from material misstatements caused by fraud or not intentional behaviors or events.

The Directors are also responsible for identifying the contents of the DNF within the matters mentioned in article 3, par. 1, of the Decree, considering the business and the characteristics of the Group and to the extent deemed necessary to ensure the understanding of the Group's business, its performance, its results and its impact.

The Directors are also responsible for defining the Group's management and organization business model, as well as with reference to the matters identified and reported in the DNF, for the policies applied by the Group and for identifying and managing the risks generated or incurred by the Group.

The Board of Statutory Auditors is responsible, within the terms provided by the law, for overseeing the compliance with the requirements of the Decree.

EY S.p.A.
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Iscritta alla S.O. del Registro delle Imprese presso la CCIAA di Milano Monza Brianza Lodi
Codice fiscale e numero di iscrizione 00434000584 - numero R.E.A. di Milano 606158 - P.IVA 00891231003
Iscritta al Registro Revisori Legali al n. 70945 Pubblicato sulla G.U. Suppl. 13 - IV Serie Speciale del 17/2/1998
Iscritta all'Albo Speciale delle società di revisione
Consob al progressivo n. 2 delibera n.10831 del 16/7/1997

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Auditors' independence and quality control

We are independent in accordance with the ethics and independence principles of the *International Code of Ethics for Professional Accountants (including International Independence Standards)* (IESBA Code) issued by the *International Ethics Standards Board for Accountants*, based on fundamental principles of integrity, objectivity, professional competence and diligence, confidentiality and professional behavior. Our audit firm applies the *International Standard on Quality Control 1 (ISQC Italia 1)* and, as a result, maintains a quality control system that includes documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable laws and regulations.

Auditors' responsibility

It is our responsibility to express, on the basis of the procedures performed, a conclusion about the compliance of the DNF with the requirements of the Decree and of the GRI Standards. Our work has been performed in accordance with the principle of "*International Standard on Assurance Engagements ISAE 3000 (Revised) - Assurance Engagements Other than Audits or Reviews of Historical Financial Information*" (hereinafter "*ISAE 3000 Revised*"), issued by the *International Auditing and Assurance Standards Board* (IAASB) for limited assurance engagements. This principle requires the planning and execution of work in order to obtain a limited assurance that the DNF is free from material misstatements. Therefore, the extent of work performed in our examination was lower than that required for a full examination according to the ISAE 3000 Revised ("*reasonable assurance engagement*") and, hence, it does not provide assurance that we have become aware of all significant matters and events that would be identified during a reasonable assurance engagement.

The procedures performed on the DNF were based on our professional judgment and included inquiries, primarily with company's personnel responsible for the preparation of the information included in the DNF, documents analysis, recalculations and other procedures in order to obtain evidences considered appropriate.

In particular, we have performed the following procedures:

1. analysis of the relevant matters in relation to the activities and characteristics of the Group reported in the DNF, in order to assess the reasonableness of the selection process applied in accordance with the provisions of article 3 of the Decree and considering the reporting standard applied;
2. analysis and evaluation of the criteria for identifying the consolidation area, in order to evaluate its compliance with the provisions of the Decree;
3. comparison of the economic and financial data and information included in the DNF with those included in the A2A Group's consolidated financial statements;
4. understanding of the following aspects:
 - o Group's management and organization business model, with reference to the management of the matters indicated in the article 3 of the Decree;
 - o policies adopted by the Group related to the matters indicated in the article 3 of the Decree, results achieved and related key performance indicators;
 - o main risks, generated or suffered related to the matters indicated in the article 3 of the Decree.



With regard to these aspects, we obtained the documentation supporting the information contained in the DNF and performed the procedures described in item 5. a) below

5. understanding of the processes that lead to the generation, detection and management of significant qualitative and quantitative information included in the DNF. In particular, we have conducted interviews and discussions with the management of A2A S.p.A. and with the personnel of Aeb S.p.A., Linea Group Holding S.p.A., A2A Calore e Servizi S.p.A., A2A Ambiente S.p.A., A2A Energiefuture S.p.A. and Acsm-Agam S.p.A., and we have performed limited documentary evidence procedures, in order to collect information about the processes and procedures that support the collection, aggregation, processing and transmission of non-financial data and information to the management responsible for the preparation of the DNF.

Furthermore, for significant information, considering the Group activities and characteristics:

- at Group level
 - a) with reference to the qualitative information included in the DNF, and in particular to the business model, policies implemented and main risks, we carried out inquiries and acquired supporting documentation to verify its consistency with the available evidence;
 - b) with reference to quantitative information, we have performed both analytical procedures and limited assurance procedures to ascertain on a sample basis the correct aggregation of data.
- for A2A Calore e Servizi S.p.A. (Brescia - Lamarmora plant), A2A Energiefuture S.p.A. (San Filippo del Mela thermoelectric power plant) and A2A Ambiente S.p.A. (Brescia waste-to-energy plant), that we have selected based on their activities, relevance to the consolidated performance indicators and location, we have carried out remote interviews during which we have had discussions with management and have obtained evidence about the appropriate application of the procedures and the calculation methods used to determine the indicators.

Conclusions

Based on the procedures performed, nothing has come to our attention that causes us to believe that the DNF of the A2A Group for the year ended on December 31, 2021 has not been prepared, in all material aspects, in accordance with the requirements of articles 3 and 4 of the Decree and the GRI Standards.

Our conclusions on the DNF of the Group do not refer to the information included in the paragraph "European Taxonomy" of the DNF itself, that are required by art. 8 of the European Regulation 2020/852.

Milan, March 31, 2022

EY S.p.A.
Paolo Zocchi
(Auditor)

This report has been translated into the English language solely for the convenience of international readers.

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* Consolidated Financial Statements 2021 - Annex X. List of companies included in the Consolidated Financial Statements.

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** Report on Operations 2021 - paragraph 3. Evolution of the regulation and impacts on the Business Units of the A2A Group.

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D 103-3	Assessment of the management approach	170-171	
D 416-2	Cases of non-compliance on health and safety of products/ services	-	79;89;95
EU 25	Number of injuries and fatalities to the public, including legal proceedings	-	79;89;95
Marketing and labeling (GRI 417)			
D 103-1	Explanation of the material matters and their limits	78-79;170-171	
D 103-2	Approach of management and its members	170-171	
D 103-3	Assessment of the management approach	170-171	
D 417-3	Incidence of non-compliance concerning marketing activities	183	82
Consumer privacy (GRI 418)			
D 103-1	Explanation of the material matters and their limits	78-79;170-171	
D 103-2	Approach of management and its members	170-171	
D 103-3	Assessment of the management approach	170-171	
D 418-1	Grounded complaints relating to customer privacy violations and data loss	32;110-111	82
Socioeconomic compliance (GRI 419)			
D 103-1	Explanation of the material matters and their limits	78-79;36-37	
D 103-2	Approach of management and its members	36-37	
D 103-3	Assessment of the management approach	36-37	
D 419-1	Non-compliance with regulations in the social-economic area	-	79;89;95

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Electric Utility Sector Supplement

Indicators	MAIN DOCUMENT	SUPPLEMENT
Demand side management		
D 103-1	Explanation of the material matters and their limits	78-79; 100-101
D 103-2	Approach of management and its members	100-101
D 103-3	Assessment of the management approach	100-101
Research and development		
D 103-1	Explanation of the material matters and their limits	78-79; 158-159
D 103-2	Approach of management and its members	158-159
D 103-3	Assessment of the management approach	158-159
Efficient management		
D 103-1	Explanation of the material matters and their limits	78-79; 100-101
D 103-2	Approach of management and its members	100-101
D 103-3	Assessment of the management approach	100-101
EU 11	Average generation efficiency of thermal plants	-
EU 12	Transmission and distribution losses as a percentage of total energy	-
Accessibility of the service		
D 103-1	Explanation of the material matters and their limits	78-79; 170-171
D 103-2	Approach of management and its members	170-171
D 103-3	Assessment of the management approach	170-171
EU 28	Index of power outage frequency	65-66;
EU 29	Index of average power outage duration	65-66;
EU 30	Average plant availability factor	21

Other indicators GRI Standards - NFD A2A Group

Indicators	MAIN DOCUMENT	SUPPLEMENT
Economic performance (GRI 201)		
D 201-2	Economic consequences and other risks/opportunities due to climate change	58-67
Anti-corruption (GRI 205)		
D 205-2	Communication and training on anti-corruption policies and procedures	31
Energy (GRI 302)		
D 302-3	Indicators of energy intensity	124 -126
D 302-4	Reduction of energy consumption	109;126; 133;
D 302-5	Reduction in energy consumption of products and services	176-177
Emissions (GRI 305)		
D 305-3	Other indirect GHG emissions	124-125
D 305-4	Emission intensity GHG	124-125
D 305-5	Initiatives to reduce GHG emissions	50-51;103-104;107-109;125-126
Employment		
EU 17	Days worked by third-party employees involved in construction, operation and maintenance	-
EU 18	Percentage of third-party employees that have undergone relevant health and safety training	149
Diversity and equal opportunities (GRI 405)		
D 405-2	Ratio of basic and average salary of women with respect to men in same category	146-147

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Material aspects and scope of application

Group Ethics and Integrity	ANTI-CORRUPTION (GRI 205) ANTI-COMPETITIVE BEHAVIOUR (GRI 206) ENVIRONMENTAL COMPLIANCE (GRI 307) SOCIOECONOMIC COMPLIANCE (GRI 419) NON DISCRIMINATION (GRI 406) FREEDOM OF ASSOCIATION AND COLLECTIVE BARGAINING (GRI 407) HUMAN RIGHTS ASSESSMENT (GRI 412)	Group	Community/ Customers/ Suppliers*
Sustainability in Governance	NON DISCRIMINATION (GRI 406) SOCIOECONOMIC COMPLIANCE (GRI 419) ANTI-CORRUPTION (GRI 205) RESEARCH AND DEVELOPMENT (EU SUPPLEMENT)	Group	Community/ Customers/ Suppliers*
Sustainable economic value	ECONOMIC PERFORMANCE (GRI 201)	Group	Shareholders/ Institutions
Sustainable Finance	INDIRECT ECONOMIC IMPACTS (GRI 203)	Group	Shareholders/ Institutions
Infrastructure for the Ecological Transition	ENERGY (GRI 302) EFFICIENT MANAGEMENT (EU SUPPLEMENT)	Group	-
Circular economy	MATERIALS (GRI 301) EFFLUENTS AND WASTE (GRI 306)	Waste BU Smart Infrastructures BU Generation and Trading BU	Community
Responsible management of water resources	WATER AND EFFLUENTS (GRI 303) EFFLUENTS AND WASTE (GRI 306) ENVIRONMENTAL COMPLIANCE (GRI 307)	Group	Suppliers* Community/ Customers
Climate change	ENERGY (GRI 302) EMISSIONS (GRI 305)	Group	Suppliers*/ Customers
Biodiversity	ENVIRONMENTAL COMPLIANCE (GRI 307) BIODIVERSITY (GRI 304)	Group	Community
Pollution prevention	ENERGY (GRI 302) EMISSIONS (GRI 305) EFFLUENTS AND WASTE (GRI 306)	Group	Community/ Customers
Occupational health and safety	OCCUPATIONAL HEALTH AND SAFETY (GRI 403)	Group	Contractors
Development of human capital	EMPLOYMENT (GRI 401) DEVELOPMENT AND TRAINING (GRI 404)	Group	-
Diversity and inclusion	DIVERSITY AND EQUAL OPPORTUNITIES (GRI 405)	Group	-
Innovation and digital transformation	RESEARCH AND DEVELOPMENT (EU SUPPLEMENT) DEMAND SIDE MANAGEMENT (EU SUPPLEMENT)	Group	Institutions
Responsibility and quality in the provision of services	LOCAL COMMUNITY (GRI 413) PUBLIC POLICY (GRI 415)	Group	-
Responsible management of the supply chain	PROCUREMENT PRACTICES (GRI 204) SUPPLIER ENVIRONMENTAL ASSESSMENT (GRI 308) SUPPLIER SOCIAL ASSESSMENT (GRI 414)	Group	Suppliers*

* Limited scope: reporting relates solely to direct suppliers and not to level-two suppliers.

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Scope	TCFD Recommendations	Reference
Governance Governance model of the organization in relation to climate change risks and opportunities	a. Describe the Board's oversight of climate change risks and opportunities b. Describe the role of management in assessing and managing the risks and opportunities associated with climate change	- Roles and responsibilities for climate change mitigation page 28 - Roles and responsibilities for climate change mitigation page 28
Strategy Current or potential impacts of climate change risks and opportunities on the organization's business, strategy and financial planning	a. Describe the risks and opportunities related to climate change that the organization has identified in the short, medium and long term b. Describe the impact of climate change risks and opportunities on the organization's business, strategy and financial planning c. Describe the resilience of the organization's strategy, considering different climate-related scenarios, including a scenario of 2°C or less	- Risk management and climate-related opportunities pages 58-67 - The Strategic Plan 2021 - 2030 pages 46-47 - Risk management and climate-related opportunities pages 58-67 - Background information and scenarios pages 41-43 - COP26 and European and national strategy pages 44-45 - The Strategic Plan 2021 - 2030 pages 46-47 - A2A CO ₂ emission reduction objectives in line with the Science-Based Targets Initiative (SBTi) page 124
Risk Management Process for the identification, assessment and management of risks connected with climate change,	a. Describe the organization's processes for identifying and assessing climate change risks b. Describe the organization's processes for managing climate change risks c. Describe how the processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management	- Analysis and management of risks and opportunities pages 34-37 - Risk management and climate-related opportunities pages 58-67 - Analysis and management of risks and opportunities pages 34-37 - Risk management and climate-related opportunities pages 58-67 - Natural Capital pages 118-119 - Energy Transition pages 120-126 - Analysis and management of risks and opportunities pages 34-37 - Risk management and climate-related opportunities pages 58-67
Metrics and targets Metrics and targets used by the organization to assess and manage relevant risks and opportunities related to climate change	a. Disclose the metrics used by the organization to assess climate change risks and opportunities in line with its strategy and risk management process b. Disclose Scope 1, Scope 2 and Scope 3 greenhouse gas (GHG) emissions, and related risks c. Describe the objectives used by the organization to manage climate change risks and opportunities and performance against the objectives	- Risk management and climate-related opportunities pages 58-67 - Energy Transition pages 120-126 - Energy Transition pages 52-53

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We would like to thank all our colleagues of A2A who worked on the preparation of this Report.

Graphic design and layout:

SERVICEPLAN
MERCURIO GP

Printing:

AGEMA S.p.A.

Milan, March 2022





2021

Supplement to the Integrated Report

Consolidated Non-Financial Disclosure
pursuant to Legislative Decree no. 254/2016



2021

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CIRCULAR ECONOMY

		OVERVIEW		PLAN 21 - 30				
ACTION	KPIs		2020	2021	2023	2026	2030	
WASTE RECOVERY AND TREATMENT Improve the recovery process of waste collected (including through their transformation into energy) and promote separate waste collection	Municipal waste differentiated collection rate (%)		71%	71%	72%	75%	77%	Operational sustainability targets 21-30
	% differentiated collection Milan		62%	62%	66%	70%	76%	
	% municipal waste collected in landfill		0.3%	0%	0%	0%	0%	
	Per capita undifferentiated waste reduction (t/inhabitant) ¹		154.4	132.4	131.6	118.1	99.0	
	Waste sent for material recovery (Mt)		1.0	0.9	1.3	1.7	2.2	
DISTRICT HEATING Help reduce the environmental impact of the cities, paying close attention to air quality, implementing district heating and district cooling	Thermal storage capacity for TLR (cubic metres)		7,620	18,220	26,220	33,220	33,220	Stakeholder engagement and materiality analysis
	Energy from thermal waste / renewables for the TLR (TWh/t)		1.4	1.5	1.7	2.4	2.9	
	Share of heat from renewables and waste recovery (% of total)		50%	50%	53%	68%	73%	
	CO ₂ emissions avoided thanks to TLR (t/a)		-225,218	-323,029	-332,263	-476,725	-595,359	
	NOx emissions avoided thanks to TLR (t) - cumulative		-241	-275	-800	-1,721	-3,234	
WATER implement actions to reduce water consumption in capture and distribution processes, reduce water dispersion and improve the quality of water returned to the environment	Reduction in water consumption from aqueducts in electrical distribution - Unareti perimeter - % reduction compared to 2020 consumption		-	-22%	-29%	-37%	-59%	Financial capital
	Linear water losses (m3/km/days) - average		24.4	23.1	21.8	19.9	18.7	
	Total population served by treatment (millions)		0.6	0.6	0.7	1.0	1.8	
	Cumulative reduction in consumption of electricity from aqueduct wells (base year 2021) by A2A Ciclo Idrico (kWh/m ³)		-	NEW	-4.4%	-8.2%	-12.1%	
	Number of intelligent sensors installed for water service - cumulative figure		87	841	953	1,123	1,423	
	Percentage of new generation water service meters installed		22%	29%	60%	83%	96%	
	Percentage of districtualization of the A2A Ciclo Idrico aqueduct network		NEW	22%	29%	42%	65%	
POLICIES TO REDUCE WASTE PRODUCTION Reduce the production of waste through a prevention, reduction and reuse policy	Territories where waste prevention and reduction actions are active (% of total population served) always >85%		89%	85%	89%	91%	92%	Manufacturing capital
	Number of partnerships launched for circular economy initiatives		7	10	18	26	31	
REAL ESTATE Ensure maximum energy efficiency through BAT also for the assets of the Group	LEED certification new <i>building</i> A2A		-	-	-	Achievement (2025)		Natural capital
	Develop energy efficiency projects in <i>buildings</i> of the Group		-	-	Headquarters Porta Vittoria (2022)	Torre Faro		
	Emissions (Scope1+2) from <i>building</i> of Group (t)		NEW	4,887	5,212	4,722	3,741	

* Updated to include ACSM-AGAM and AEB.



ENERGY TRANSITION

ACTION	KPIs	OVERVIEW		PLAN 21 - 30			
		2020	2021	2023	2026	2030	
RENEWABLES Increase the proportion of energy produced from renewable sources	Total installed RES capacity (GW) Generation and Trading BU	2.1	2.2	2.8	3.7	5.9	Operational sustainability targets 21-30
	Percentage of renewable energy on total - Generation and Trading BU	33%	30%	37%	38%	63%	
	Total installed RES capacity (GW) Market BU	0.01	0.01	0.03	0.09	0.17	
	Total net production (GWh) solar Market BU	10	15	50	136	269	
EMISSIONS Develop actions aiming to reduce the environmental footprint, like direct and indirect emissions of greenhouse gases	Scope 1 emission factor (gCO _{2eq} /kWh) - perimeter in line with target approved by SBTi ²	310	332	292	283	216	Stakeholder engagement and materiality analysis
	Emissions Scope 2 (ktCO _{2eq})	29	21	8	0	0	
	Total methane emissions avoided from distribution networks - cumulative values with respect to 2015 (tCO _{2eq}) - Unareti perimeter	-49,231	-58,611	-83,899	-138,156	-240,964	
SUSTAINABLE MOBILITY Develop sustainable internal and external mobility solutions	Charging service contracts <i>E-moving</i> (number)	-	-	13,404	57,732	169,632	Financial capital
	Cumulative avoided emissions - <i>E-moving</i> (t)	-	-	-18,945	-128,614	-581,976	
	Number of electric charging points - cumulative	-	472	2,035	10,079	23,995	
	Percentage of Group electric vehicles (out of total cars and light commercial vehicles)	NEW	8%	33%	42%	58%	Manufacturing capital
	Number of low environmental impact collection and street sweeping vehicles (Euro 6 vehicles, methane gas, electric)	49%	53%	64%	78%	91%	
GREEN ENERGY – END-USE ENERGY EFFICIENCY Contribute to the reduction of emissions of end customers through the sale of green energy and the development of energy efficiency measures for public and private real estate assets	Green energy sold to the market (TWh)	3.9	5.0	7.2	11.2	17.4	Natural capital
	CO ₂ gas free sold (Mm³)	-	21	98	226	311	
	Loyal customers with energy efficiency services (Customers with a service/product in addition to the <i>commodity</i>)	1.1%	1.9%	4.5%	11.0%	20.3%	Human capital
	Cumulative avoided emissions - VAS products (HVAC, PV systems) (t)	-	-575	-11,329	-92,833	-440,130	
	Cumulative avoided emissions - Energy efficiency b2b - ESCo (t)	-	-78,617	-147,087	-311,461	-555,274	
	Cumulative avoided emissions - SEA products for condominiums and commercial buildings (t)	-	-1,117	-8,064	-23,373	-52,168	Relational capital
SMART GRIDS Develop solutions to offer a better information access infrastructure (Smart Grid) and improve the network resilience and to contribute to the growing electrification of consumption	Percentage of users with 2G electricity smart meter (Unareti)	10%	24%	73%	99%	100%	
	User interruptions in LV - SAIFI (#/year/POD)	-	1.61	1.36	1.04	0.97	The Acsm Agam Group
	Installed capacity of the electricity grid (MVA)	4,208	4,686	5,171	5,876	6,493	
	Investments in Smart Grids (mln €) - cumulative value	-	38	145	290	486	

² KPI included in the A2A Sustainable Finance Framework.



DIGITAL

		OVERVIEW		PLAN 21 - 30			
ACTION	KPIs	2020	2021	2023	2026	2030	
QUALITY Maintain high quality standards of the services supplied by keeping high Customer Satisfaction levels	Digitalization of Customer Care: digital contacts of total	15%	14%	21%	29%	41%	Operational sustainability targets 21-30
	Interventions on Group websites aimed at increasing and improving contact touchpoints - number/year	15	21	27	30	35	
	CSI Call Center A2A Energia	> sector national average	> sector national average	> sector national average	> sector national average	> sector national average	
	Customer Satisfaction Aprica	NEW	74.60	74.80	75.1	75.5	
	Customer Satisfaction AMSA	7.77	7.67	7.71	7.77	7.85	
	Number of active supplies bollett@mail (energy sales) - thousands	1,046	1,314	2,332	3,566	4,915	
CYBER & O.T. SECURITY Adoption of defence mechanisms and protection against logical, viral attacks	Achievement certification Cybersecurity ISO27001 (ICT)	NEW	-	Achievement			Stakeholder engagement and materiality analysis
	Percentage of impacts to people, services and assets as a result of critical cyber incidents and events	NEW	0%	0%	0%	0%	
	Events of cyber security knowledge sharing	NEW	3	7	10	10	
	Obtaining Business Continuity ISO22301 certification	-	-	Achievement			
	Inclusion of ESG logics in reputational analysis / Due diligence	-	-	30%	90%	100%	
SMART CITY Support the development of the Smart City in the territory in which the Group operates, including through new business models that exploit the technological component (Smart Grids and big data)	Gas cabins, isolation boxes, 2 nd ele cabinets and IP poles enabling 5G, FWA and smartsensors	0	5	45	470	10,000	Financial capital
	Data analytics projects for municipalities and utilities in the field of safety, mobility and air quality	0	1	6	20	150	
INNOVATION AND R&D Develop investments in research and development, increasing the number of partnerships with international research centres and universities. Develop new technologies, patents for technological innovation.	Number of innovation projects (or investments) related to the SDGs	NEW	80%	90%	100%	100%	Manufacturing capital
	Investments in start-ups (new investments and follow on) through a Corporate Venture Capital	4	4	6	6	6	
	Initiatives of crowd sourcing of ideas and solutions (e.g scouting, innovation brokers,...) to address sustainability goals	NEW	8	12	15	15	
ANALYTICS Transforming data into actionable information that improves the company's systems, processes and strategies to achieve sustainable business success.	Advanced Analytics in scale up linked to SDGs	NEW	2	4	5	5	Natural capital
	AI projects with sustainability impacts	NEW	10%	10%	50%	100%	
ICT Infrastructure development and improvement projects of IT/OT/IoT/IIoT platforms and applications.	CO ₂ avoided by digital initiatives (t/a)	NEW	-123	-166	-217	-288	Human capital
	Number of digital initiatives with measurable sustainability impact	NEW	11	18	27	35	

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PEOPLE INNOVATION

		OVERVIEW		PLAN 21 - 30			
ACTION	KPIs	2020	2021	2023	2026	2030	
HEALTH AND SAFETY Consolidate the training and prevention plan to reduce injuries and develop new initiatives for worker health and safety	Number of accesses to health promotion initiatives	NEW	5,100	7,300	10,600	15,000	Operational sustainability targets 21-30
	Accident Frequency Index (If) with gate on Severity Index (Ig) calculated taking into account only the first prognoses	Updated	20.0	17.67	14.99	12.60	
MbO and PERFORMANCE MANAGEMENT Add sustainability objectives to the MbO sheets (correlation between Management remuneration and Sustainability KPIs)	Employees with formally assigned objectives (% of total employees)	10%	12%	15%	50%	100%	Stakeholder engagement and materiality analysis
	Extension tool for <i>continuous feedback</i>	7%	29%	50%	50%	100%	
TRAINING Implement training routes aimed at optimising and requalifying competences and professional development (including on matters such as sustainability, anti-corruption and human rights)	Employees involved in training on sustainability and SDGs (% of employees to whom content is made available)	60%	60%	80%	100%	100%	Financial capital
	Investment density of training to the role	NEW	57% for 16.4 hours per capita	60% for 10 hours per capita	60% for 10 hours per capita	60% for 10 hours per capita	
ORGANIZATION WELLNESS Implementation of the best business organization systems for effective development of all work processes	Average hierarchical depth	3.87	3.84	3.78	3.70	3.50	Manufacturing capital
	Digitalization of regulatory documents	NEW	0%	50%	100%	100%	
	Interim positions longer than 12 months	NEW	44%	31%	13%	0%	
INTERNAL ENGAGEMENT Develop a systematic listening system to employees, promoting dialogue and collaboration	Employees involved in engagement campaigns (% of the total)	60%	100%	100%	100%	100%	Natural capital
	Actions implemented out of the total number of those proposed	100%	100%	100%	100%	100%	
	Employees involved in Survey/pulse (number)	40%	100%	100%	100%	100%	
WELFARE, DIVERSITY AND EQUAL OPPORTUNITIES Develop innovative welfare policies, also in connection with the promotion of gender equality, and optimise competences through a generational bridge that allows for the transfer of knowledge and experience between the junior and senior populations	Women in positions of responsibility (% of total managers) ³	21%	24%	25%	28%	35%	Human capital
	Gender Balance BoD	NEW	43%	53%	63%	90%	
	Gender Pay Gap	NEW	Imp: 98% Middle Managers: 96% Managers: 100%	Imp: 99% Middle Managers: 98% Managers: 100%	Imp: 100% Middle Managers: 100% Managers: 100%	Imp: 100% Middle Managers: 100% Managers: 100%	Relational capital
	Women in succession plans (% of total) ³	18%	19%	20%	26%	30%	
	% women among new hires in the Group (excluding blue collar workers)	NEW	45%	47%	50%	50%	The Acsm Agam Group
	Training on D&I issues (% of employees to whom content is made available)	50%	60%	80%	100%	100%	
	Employees with disabilities involved in specific support/inclusion projects (% of total employees Protected categories)	0%	10%	35%	80%	100%	The AEB Group
	Hours worked in Remote Working % of total (considering the pandemic situation)	NEW	21.7%	11.7%	13%	21%	

³ Updated to include ACSM-AGAM and AEB.



PEOPLE INNOVATION

		OVERVIEW		PLAN 21 - 30			
ACTION	KPIs	2020	2021	2023	2026	2030	
RESPONSIBLE PROCUREMENT Develop initiatives aiming to spread the culture of health and safety at work amongst contractors and other suppliers. Develop Green Procurement policies	Incidence of sustainability criteria in the vendor rating process	17%	17%	>20%	>25%	>30%	Operational sustainability targets 21-30
	Value of orders assigned to certified suppliers	83%	86%	85%	87%	90%	
	Value of orders assigned to financially sound suppliers (D&B Rating 1-2)	>70%	77%	>70%	>75%	>85%	
	% of the order to Suppliers evaluated with ESG indicator (Infoprovider Ecovadis)	50%	47%	65%	80%	90%	
	Corrective actions taken following unsuccessful audits	83%	94%	89%	91%	92%	
	Inspections of road sites (number/year)	3,961	5,522	4,920	5,910	6,900	
EDUCATION Consolidate and, where possible, improve the environmental education and promote the awareness of risks associated with climate change in the public opinion	Number of accesses to environmental culture initiatives	0	5,399	7,500	10,700	15,000	Financial capital
	Teachers registered in the education portal of A2A	1,700	2,346	2,000	2,200	2,500	Manufacturing capital
	Stakeholders involved in Environmental Education initiatives	24,000	44,000	26,000	30,000	35,000	
DISADVANTAGED GROUPS Promote beneficial tariffs or other solutions for users in difficulty (e.g. Banco dell'Energia)	Design of a multi-year plan for the Energy Bank that develops synergies with the involvement of associations, companies, research bodies and third sector organizations and encourages its expansion throughout Italy, as well as consolidating its presence in the areas where the Group has its roots	NEW	Start	Development			Natural capital
TRANSPARENCY AND STAKEHOLDER ENGAGEMENT Develop integrated reporting and an adequate information system for planning and control Develop external stakeholder engagement activities, strengthening the relationship with the territory	Territories involved in multi stakeholder engagement initiatives / year	1	7	5	8	10	Human capital
	Develop impact assessment analyses on the territories of competence	NEW	1	1	3	5	
	Group events CO ₂ free (offset through credits)	NEW	0%	30%	100%	100%	
	Publishing content for the Group's growth in ESG brand reputation (value of reputational return on digital channels)	>60%	>90%	>77%	>80%	>85%	Relational capital
	Sponsorships with initiatives to raise awareness of SDGs issues	34%	50%	50%	70%	90%	
	Organization of meetings on innovative regulatory and sustainability issues related to the Business Plan between A2A top management and one or more relevant regulatory stakeholders	NEW	>2	>2	>2	>2	The Acsm Agam Group
	Elaboration, also in sharing with BUs, of at least one innovative regulatory proposal on an issue of development of the business plan.	NEW	1	1	1	1	

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GOVERNANCE

		OVERVIEW			PLAN 21 - 30		
ACTION	KPIs	2020	2021	2023	2026	2030	
COMPLIANCE/BUSINESS ETHICS Implement all the principals and the best national and international initiatives for the dissemination of compliance within the Group	Certification ISO37001 - Anti-bribery management systems	-	-	-	Achievement (2024)		Operational sustainability targets 21-30
	Training projects per year on compliance issues	-	2	2	2	2	
	Employees trained on the Code of Ethics and on Group documents relating to ethical/behavioural principles	81%	82%	>80%	>80%	>80%	
SUSTAINABILITY GOVERNANCE Ensure the integration of ESG issues into management models, corporate strategy and purpose.	Number of meetings per year of Induction to BoD/CST on emerging Sustainability issues (tbd e.g. EU Taxonomy, Human Rights, TCFD etc.)	-	1	1	1	1	Stakeholder engagement and materiality analysis
RISK MANAGEMENT To verify that the system used to identify, manage and prevent business risks adequately covers sustainability risks (and, in particular, social-environmental risks), also in organisational terms	Identify ERM risks on all material issues	-	100%	100%	100%	100%	Financial capital
	Identification and assessment of risks related to the Green Deal	-	NEW	>80% of the year's programme	>80% of the year's programme	>80% of the year's programme	
	Share of processes and activities covered by Environmental Risk Assessment	NEW	39% ⁴	100% ⁴	100% ⁵	100% ⁵	Natural capital
SUSTAINABILITY IN PLANNING AND INVESTMENT PROCESSES Inclusion of ESG logic in investment planning and evaluations	Percentage of 'sustainable debt' over total	28%	44%	50%	>70%	>80%	Human capital
	Identify projects classified as "sustainable" when defining the budget/plan, according to SDGs/ESGs/classification logics Taxonomy with indication of ESG performance KPIs	-	100%	100%	100%	100%	
	Develop a timely analysis of investors' and analysts' ESG expectations	-	definition of a checklist of ESG best practices	update/revision of ESG best practices at KPI/KI level (2022)			Relational capital
ESG RATING Participation in assessments to assess ESG performance of the Group, and implementation of activities for continuous improvement of the rating	Improve the score in at least 2 sustainability ratings/year	2	5	>2	>2	>2	The Acsm Agam Group
BIODIVERSITY Adhere to projects aiming to protect the soil and protected species, monitoring and protecting biodiversity in the territories of competence	Plants monitored with respect to potential interference with biodiversity (protected areas, Natura 2000 and others) (Maintaining full coverage of sites and activities as the company's perimeter is expanded)	100%	100%	100%	100%	100%	The AEB Group

⁴ Intended as the completion of the roll out of the Environmental Risk Assessments on companies with a defined plan as of 12/31/2021

⁵ Understood as meeting the Environmental Risk Assessment timeline in the integration plan for new acquisitions

Stakeholder engagement and materiality analysis

Figure 1 Stakeholder engagement initiatives activated in 2021

CATEGORY	MODE OF COMMUNICATION AND INVOLVEMENT	INTEREST	MATERIAL ISSUES *
Shareholders and investors	- Direct interaction - Events, press conferences and conventions - Road shows - Shareholders' Meetings	- Business development - Knowledge, guidance and request for investment - Knowledge of facilities and services information - Territorial economic development	- Circular economy and responsible use of resources - Sustainability elements in corporate governance - Creation of value for all parties in relation to the Group - Risk management and sustainability opportunities
Customers	- Direct interaction - Plant tours - Communication campaigns - Training	- Costs, efficiency and quality of service - Service continuity and security - Application of and compliance with contracts/payments - Sharing of criticalities and complaints	- Quality and innovation in the provision of services and products - Creation of value for all parties in relation to the Group - Circular economy and responsible use of resources - Responsibility and Safety in the provision of services and products
Community	- Direct interaction - Plant tours - Events, press conferences and conventions - Communication campaigns	- Community, environmental and land protection - Community Well-Being - Knowledge of facilities and services information - Economic contributions and sponsorships	- Circular economy and responsible use of resources - Active local and environmental education - Creation of value for all parties in relation to the Group - Combating climate change
Institutions	- Direct interaction - Discussion tables - Plant tours - Press releases	- Control, regulation and compliance - Community, environmental and land protection - Compliance with environmental requirements - Community Well-Being	- Ethical conduct of business - Circular economy and responsible use of resources - Active local and environmental education - Sustainability elements in corporate governance

* Monitoring on engagement activities related to the year 2021 was based on the material issues in effect in 2020. Beginning with the 2022 monitoring, material issues updated in 2021 will be used.

CATEGORY	MODE OF COMMUNICATION AND INVOLVEMENT	INTEREST	MATERIAL ISSUES *
Market	- Direct interaction - Discussion tables - Events, press conferences and conventions - Work groups/committees and observatories	- Business development - Knowledge of facilities and services information - Application of and compliance with contracts/payments - Sharing <i>best practice</i> and creating networks	- Circular economy and responsible use of resources - Quality and innovation in the provision of services and products - Responsibility and Safety in the provision of services and products - Creation of value for all parties in relation to the Group
People	- Direct interaction - Communication campaigns - Training - Work groups/committees and observatories	- Working conditions - Dialogue, engagement and raising awareness - Employment - Training	- Protection of occupational health and safety - Development of human capital - Corporate welfare - Ethical conduct of business
Supply chain	- Direct interaction - Plant tours - Discussion tables	- Application of and compliance with contracts/payments - Service continuity and security - Working conditions - Order acquisition	- Quality and innovation in the provision of services and products - Responsible management of the supply chain - Protection of occupational health and safety - Responsibility and Safety in the provision of services and products - Creation of value for all parties in relation to the Group

* Monitoring on engagement activities related to the year 2021 was based on the material issues in effect in 2020. Beginning with the 2022 monitoring, material issues updated in 2021 will be used.

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Financial capital

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Financial capital

Figure 2 - Statement for calculating the economic value - generated and distributed* (millions of euro)
[GRI 201 - 1_4]

	2020	2021
Economic value generated	6,874	11,582
A. Production value	6,862	11,563
C.15 Income from equity investments	0	0
C.16 Other financial income	12	19
E.20 Extraordinary income	0	0
Economic value distributed	6,139	10,732
Operating expenses	4,911	9,365
B.6 Costs for raw materials	3,362	7,618
B.7 Costs for services	1,282	1,530
B.8 Costs for use of third-party assets	100	118
B.11 Changes in inventories of raw materials	45	-55
B.14 Other operating expenses (net of taxes)	122	154
Value distributed to employees	705	724
B.9 Personnel costs	705	724
Value distributed to capital providers	95	89
C.17 Interest and other financial expenses	95	89
Value distributed to Public Administrations	175	251
22. Income taxes (current and deferred)	141	218
B.14 Other operating expenses (only the value of indirect taxes)	34	33
Value distributed to shareholders	245	294
Dividends distributed	241	248
Third-party profits	4	46
Value distributed to the community	8	9
Sponsorships	1	2
Donations and Membership Contributions	7	7
Economic value retained	735	850
Profit (loss) for the period (net of dividends)	123	256
(B.10 + B.12 + B.13 + D.19 + D.18) Amortization, Depreciation / Provisions / Write-downs / Revaluations	654	776
22. Deferred tax liabilities	-42	-182
E.21 Extraordinary expenses	0	0

* It should be noted that the item "Net profit (loss) from discontinued operations/assets held for sale" - entered in the Group's consolidated financial statements - was reallocated to the appropriate items in the income statement, in compliance with the provisions of the GRI Framework calculation schedule.

Figure 3 Gross operating margin by business unit - (millions of euro)

	2019	2020 ***	2021
Generation and Trading	301	269	368
Market	229	202	214
Environment*	268	282	341
Smart Infrastructures **	461	471	538
Corporate	-36	-24	-33
Total	1,234	1,200	1,428

* From 2020, the International BU has been included in the Environment BU.

** From 2019, the A2A Smarty City BU has been included in the Smart Infrastructures BU; from 2021, the A2A Illuminazione Pubblica company has been included in the Smart Infrastructures BU.

*** In 2020, reclassified revenues and operating costs relating to gas distribution assets held for sale reclassified under the item "Net profit (loss) from assets sold/held for sale".

Figure 4 Balance Sheet (millions of euro)

	2019	2020	2021
Net fixed assets	6,470	7,067	8,026
Working capital	335	507	243
Assets/liabilities held for sale	-	14	147
Net invested capital	6,805	7,588	8,416
Shareholders' equity	3,651	4,166	4,303
- Attributable to the Group	3,289	3,537	3,760
- Attributable to minorities	362	579	543
Net debt	3,154	3,472	4,113
Total sources	6,805	7,588	8,416
Gross debt	3,620	4,516	5,110

Figure 5 Main balance sheet indicators (millions of euro)

	2019	2020	2021
Turnover by permanent worker (millions of euro)	0.6	0.53	0.87
EBITDA per permanent worker (millions of euro)	0.10	0.09	0.11
Average number of permanent workers	12,198	12,907	13,206

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Figure 6 CapEx (capital expenditure)

	2019	2020	2021
Generation and Trading	88	76	144
Market	32	64	73
Environment**	96	174	273
Smart Infrastructures***	347	373	516
Smart City*	16	-	-
Corporate	48	51	77
Total	627	738	1,074

* From 2019, the A2A Smart City BU is included in the Smart Infrastructures BU.

** From 2020, the International BU is included in the Environment BU.

*** From 2021, A2A Illuminazione Pubblica is included in the Smart Infrastructures BU.

Figure 7 Share performance

	2019	2020	2021
Average capitalization (millions of euro)	5,011	4,143	5,259
Capitalization at Dec. 31 (millions of euro)	5,238	4,087	5,389
Average volumes	9,593,175	12,072,133	10,371,909
Average share price* (euro per share)	1.60	1.32	1.68
Maximum share price* (euro per share)	1.81	1.90	1.95
Minimum share price* (euro per share)	1.43	1.00	1.31

* Euros per share (source: Bloomberg).

Manufacturing capital

Energy production

Figure 8 Average availability factor for all plants [G4 - EU30]

A2A average availability factor (%)	2019	2020	2021
Traditional coal-powered	91.4%	96.8%	96.6%
Traditional heavy fuel oil	79.8%	81.7%	71.0%
Combined cycle natural gas	86.8%	84.4%	77.4%
Run-of-the river hydroelectric	86.3%	86.2%	79.2%
Basin hydroelectric	89.8%	91.0%	84.4%
Storage hydroelectric	71.4%	83.8%	84.3%

LGH average availability factor (%)	2019	2020	2021
Run-of-the river hydroelectric	85.0%	90%	89%

Figure 9 Electricity produced fed into the grid divided up according to plant type and source GWh [G4 - EU2]

		2019	2020	2021
Generation Business Unit	Thermoelectric plants*	10,910	9,760	11,958
	Hydroelectric plants	4,534	4,388	4,226
	Photovoltaic and wind plants (including energy consumed)	122	126	312
Smart Infrastructures Business Unit	Cogeneration plants	268	264	255
Environment Business Unit	Waste-to-energy plants (including biogas) and natural gas boilers	1,192	1,288	1,409
Total		17,044	15,827	18,160

* Does not include the production of the Scandale Plant, in line with the data of the Natural Capital and Sustainability Plan.

Figure 10 Heating energy produced fed into the grid divided up according to plant type and source (GWh)

		2019	2020	2021
Environment Business Unit	Waste-to-energy plants (including biogas) and natural gas boilers	1,478	1,530	1,604
Smart Infrastructures Business Unit	Cogeneration plants, natural gas thermal, heat pumps, biogas, solar panels	1,140	1,125	1,317
Generation Business Unit	Heat recovery	36	36	36
Total		2,654	2,691	2,957

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Electricity distribution

Figure 11 Extension of electricity distribution service [G4 - EU4]

	2019	2020	2021
Km of electricity network	15,359	15,472	15,829
of which underground cable	13,362	13,451	13,812

Figure 12 Extension of the gas distribution service

	2019	2020	2021
Km of natural gas network	11,240	9,852	13,022

Figure 13 Electricity, heating energy and gas released to the network

	2019	2020	2021
Electricity distributed (GWh)	11,573	10,497	11,268
Distributed heating and cooling energy (GWh)	3,079	3,146	3,418
Natural gas distributed (Mm ³)	2,356	2,300	2,819
Transported natural gas (Mm ³)	350	355	426

Figure 14 Losses in the grid*

	2019	2020	2021
Electricity (GWh) from distribution	301	250	298
Methane (Mm ³) (distribution)*	n.a.	1.44	2.53
Methane (Mm ³) (transport)	0.1	0.1	0.09
Heat (GWh) from district heating	n.a.	542	524

* The figure is estimated.

Figure 15 Public lighting*

	2019	2020	2021
Light points (no.)	244,951	264,360	275,629

* The 2019 and 2020 figures have been recalculated because the calculation criterion has changed; currently the criterion is pro-rata rates of actual light points operated.

Integrated water cycle

Figure 16 Procurement and distribution

Technical data	2019	2020	2021
Wells (no.)	190	190	190
Sources (no.)	255	269	269
Drinking water conversion plants (no.)	123	122	121
Total network length (km)	4,019	4,044	4,042
Water delivered to the user and accounted for (Mm ³)	54	54	56
Water extracted (Mm ³)	93	92	93
Network losses and water not booked (Mm ³)	37	36	33

Figure 17 Collection and treatment

Technical data	2019	2020	2021
Sewers - network length (km)	2,569	2,593*	2,621
Waste water treated (Mm ³)	51	52	51
Purifiers (no.)	57	59	57

* The 2020 figure from the previous document has been changed due to detection of material error.

Waste management

Figure 18 Waste collected

	2019	2020	2021
Tonnes	1,618,000	1,527,000	1,773,000

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Figure 19 Waste treated by type of plant* (kt)

	2019	2020	2021
Waste-to-energy plants	1,806	1,790	1,764
Landfills	182	120	129
Bio-drying plants and production of RDF	539	509	552
Recovery of materials and processing	1,024	1,190	1,235
Total	3,551	3,609	3,680

* All incoming waste to the Group's plants is considered. The 2021 portion of waste disposal, net of intermediation (388 kt) and elisions (-737 kt) is 3,332 kt.
Waste treated in plants managed on behalf of third parties (Acerra waste-to-energy plant and Caivano CSS plant) and ACSM-AGAM (collection waste-to-energy plant of Como) is not included.

Figure 20 Waste brokered and cross-border waste (t)

	2019	2020	2021
Waste brokered*	220,368	183,460	196,518
Cross-border waste**	54,431	46,658	43,497

* Brokered waste is third-party waste for which the Group operates a brokerage service.

** Cross-border waste is waste generated by Group companies and sent abroad.

District heating and heat

Figure 21 Thermal energy sold (GWh)

	2019	2020	2021
Heating / cooling energy	2,564	2,604	2,939

Figure 22 Extension of the district heating

	2019				2020				2021			
	USERS* (no.)	VOLUMES SERVED (Mm³)	Network development** (double pipe) km	Apartment equivalents	USERS* (no.)	VOLUMES SERVED (Mm³)	Network development** (double pipe) km	Apartment equivalents	USERS* (no.)	VOLUMES SERVED (Mm³)	Network development** (double pipe) km	Apartment equivalents
Province of Bergamo	672	7.2	75	30,000	692	7.3	77	30,500	719	7.7	81	32,500
Province of Brescia	21,313	42.5	672	177,100	20,513	42.6	678	177,700	21,586	42.8	679	178,500
Province of Milan***	3,585	52.8	343	220,083	3,990	54.8	363	228,183	3,334	56.3	372	235,126
Province of Cremona	749	6.6	77	27,600	754	6.8	77	28,317	772	6.7	78	28,067
Province of Lodi	227	3.1	27	12,700	232	3.1	27	12,735	237	3.1	28	12,848
Province of Monza and Brianza	-	-	-	-	-	-	-	-	223	1.0	16	4,083
Total	26,546	112.2	1,195	467,483	26,181	115	1,222	477,435	26,871	118	1,254	491,125

* May not coincide with a single housing unit.

** The network is intended as the sum of heat transmission, distribution and supply pipes.

*** In 2017, the Province of Milan also included the district heating service of Linea Reti e Impianti, at Rho Nord and Rho Sud.

Smart City

Figure 23 Smart City Services- Smart Land (number)

Technical data	2019	2020	2021
Municipalities served	24	184	184
Services offered	40	126	126
Video cameras	2,174	5,919	4,760
Camera Control Stations	51	51	51
Break-in sensors	5,025	7,974	4,788
Fire sensors	3,373	3,885	600
Access and presence readers	841	1,074	841
SoS stations	250	250	260
Variable message panels	15	15	15
Digital islands	29	37	37
Wi-Fi antennae	1,198	1,887	1,887
IoT Sensors	216	7,197	6,792
Environmental sensors	148	159	159
Smart bins	12,880	12,870	12,870
Smart land sensors	125	239	239
Smart parking sensors	2,580	1,861	1,982

Natural capital

Figure 24 Percentages of electricity generated by type of source [G4-EU2]

	2019	2020	2021
Renewable sources (hydraulic, renewable fraction of waste*, biogas, solar)	31%	33%	30%
Coal	6%	1%	1%
Natural gas	55%	58%	58%
Oil products	4%	4%	8%
Non-renewable fraction of waste	4%	4%	3%

* The share of electricity from biodegradable waste is calculated for each waste-to-energy plant and derives from both an analytical procedure and a lump-sum estimate with reference to the Ministerial Decree of July 6, 2012.

Figure 25 Energy performance and gross production of plants [GRI 302-3; G4 - EU11]

	2019	2020	2021
Average yield of thermoelectric plants	47%	49%	48%
Yield of high-performance natural gas combined cycles	51%	52%	52%
Yield of multi-fuel plants	31%	29%	31%
Average yield of fossil fuel cogeneration plants	80%	81%	80%
Energy intensity - Electricity consumption per unit produced (MWh)	n.a.	n.a.	5.7%
Average electricity produced from 1 t waste (kWh/te)	759	746	750
Average thermal energy produced from 1 t waste (kWh/t)	823	855	918
Specific water demand for total thermoelectric production (l/kWh _{eq})*	0.31	0.30	0.28
Specific water requirement for overall waste-to-energy plant production (l/kWh _{eq})*	1.13	1.07	0.92
Specific water demand for total cogeneration production (l/kWh _{eq})*	0.35	0.35	0.35
Gross electricity production by type of plant (GWh)			
Coal	1,161	202	174
Natural gas (CCGT and cogeneration)	9,762	9,494	10,843
Wind	0	0	22
Oil	849	763	1,667
Hydroelectric	4,552	4,424	4,253
Solar	122	127	301
Biomass	22	217	191
Waste-to-energy	1,377	1,341	1,324
Landfill gas	29	22	24
Biogas from biomass digestion plants	0	0	175

* Demand means the total quantity of water withdrawn, including the reuse of wastewater, required for the operation of the plant. The specific requirement from total production is calculated considering the total water consumption from thermoelectric production in relation to the total thermoelectric production. Water withdrawals used for open-cycle cooling, which are then returned to the original water body, are not included in this value.

Figure 26 Global impact indicators

	2019	2020	2021
Ozone-depleting substances - ODs- (kgR11 _{eq})	0.4	0.0	0.0
Total acidifying emissions (tSO _{2eq})	2,927	2,168	2,545

Figure 27 Indicators of impact due to the purchase and use of fossil fuels (scope 3) [GRI 305-3]

	2019	2020	2021
Carbon footprint (tCO _{2eq} /year)	853,467	695,408	1,109,739
Water footprint (thousands of m ³ water)	20,383	17,721	25,689

Figure 28 Environmental sanctions [GRI 307-1]

	2019	2020	2021
Number	25	32	39
of which related to the water cycle	n.a.	n.a.	22
of which relevant*			-
Value (euro)	83,962	106,272	101,569

* Sanctions relate to infractions of authorization measures or administrative imprecisions that did not result in any damages or concrete temporary or permanent danger to the environment.

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Figure 29 Water consumed by the Group Business Units according to type of collection (thousands of m³)

	2019	2020	2021
Aqueduct	1,508	1,495	1,567
Well	6,104	5,258	5,410
Surface water body - salt/sea water*	707	618	583
Surface water body - fresh water	218	282	279
From third parties - fresh water	47	54	30
Total	8,584	7,707	7,869

* Salt/sea water is defined as marine or salt water with a concentration of dissolved solids (measured as sodium chloride) >1000 mg/l.

Water stressed areas

Withdrawals

Figure 30 Group water withdrawals in water-stressed areas (thousands of m³) [GRI 303-3_5]

	2019	2020	2021
Water withdrawn for process consumption	From aqueduct	37	29
	From well	246	259
	From third parties - fresh water	47	54
	From surface water body - salt/sea water	707	618
	Total	1,037	960
Water derived and returned	From surface water body - fresh water for hydroelectric production	493,067	312,028
	From surface water body - salt/sea water	272,471	247,974
	Total	765,538	560,002
Water withdrawn for distribution to water service users	19,692	20,240	20,392

* Salt/sea water is defined as marine or salt water with a concentration of dissolved solids (measured as sodium chloride) >1000 mg/l.

Water discharges

Figure 31 Discharges, returned water and distributed drinking water A2A Group, in water stressed areas (thousands of m³) [GRI 303-4]

	2019	2020	2021
Industrial wastewater discharged	Discharged into sewers	0	0
	Discharged into surface water body (fresh water)	0	0
	Discharged into coastal waters/channels	736	639
	Total	736	639
Recovered waters	Recovered in the production cycle	827	292
	% of total water withdrawn	80%	30%
	Derived water - fresh water	493,067	312,028
Returned waters	Derived water - salt/sea water	272,471	247,974
	Total	765,538	560,294
Public water supplied to water service users	9,179	7,176	7,060

* Salt/sea water is defined as marine or salt water with a concentration of dissolved solids (measured as sodium chloride) >1000 mg/l. The areas with the greatest water stress are the Calabria Region, the Sicily Region, the Abruzzo Region, the areas of the Mountain Communities in the Province of Brescia.

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Natural capital in the Environment BU

Resources and materials used

Figure 32 Resources used [GRI 301-1; GRI 302-1_2; GRI 303-5]

	2019	2020	2021
Fuel (TJ)			
Natural gas	724	750	792
Oil (heavy fuel oil and diesel)	66	73	75
Waste, biomass and CSS	21,035	22,224	25,563
Biogas (from landfills and treatment facilities)	428	463	1,885
Automotive fuels (TJ)*			
Petrol	6	6	10
Diesel	492	463	543
Methane	145	147	170
Energy (GWh)			
Plant self-consumption, electricity		254	253
Electricity consumed (GWh), withdrawn from the grid	58	67	73
of which renewable		64	73
Heat consumed		31	92
of which renewable		21	68
Chemical products and materials (t)			
Mineral acids	1,642	1,997	2,921
Water additives/conditioners	360	1,897	3,981
Ammonia (solution)	5,002	5,593	5,780
Lime and solid neutralisers	32,176	34,937	38,308
Active carbon	1,566	1,495	1,600
Cement, sand and inert materials	219,165	360,771	19,564
Sodium chloride	280	449	5,284
Technical gases (nitrogen, CO ₂ , hydrogen, oxygen)	939	1,181	808
Sodium hydroxide (solution)	2,316	3,256	3,959
Methanol, solvents and other products	516	992	987
Oils and lubricants	126	112	292
Urea (solution)	2,138	1,977	2,046
Total chemical products **	266,172	414,657	85,530

* Increase due to the inclusion of Agripower in the scope.

** The change in 2021 is primarily related to the minor use of aggregates for post management landfills.

Withdrawals

Figure 33 Water withdrawal (thousands of m³) [GRI 303-3]

	2019	2020	2021
Water withdrawn for process consumption	Aqueduct	511	467
	Well	3,134	2,942
	Total	3,645	3,409

Water discharges

Figure 34 Discharges and returned water (water in thousands of m³) [GRI 303-4]

	2019	2020	2021
Industrial wastewater discharged	In the sewer	535	475*
	In surface water body (fresh water)	1,333	1,735
	Total	1,868	2,210*
Recovered waters	Recovered in the production cycle	384	457
	% of total water withdrawn	11%	13%
Returned (cooling) water	In surface water body (fresh water)	764	742
	BOD	20	38
Pollutant discharges into surface water (t)	COD	49	141

* The 2020 figure from the previous document has been changed due to detection of material error.

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Waste*

Figure 35 Waste produced (t) [GRI 306]**

	2019	2020	2021
Non-hazardous waste			
Non-hazardous waste for material recovery			304,927
Non-hazardous waste for energy recovery			9,366
Total recovery			314,293
Non-hazardous waste to incineration			1,298
Non-hazardous waste other disposals			197,165
Non-hazardous waste to landfill			4,286
Total at disposal			202,749
Total non-hazardous waste produced	490,684	585,541	517,042
% non-hazardous waste recovered			60.8%
Hazardous waste			
Hazardous waste for material recovery			31,706
Total recovery			31,706
Hazardous waste to incineration			177
Hazardous waste other disposals			71,915
Hazardous waste at landfill			11,505
Total at disposal			83,597
Total hazardous waste produced	115,267	113,944	115,303
% hazardous waste recovered			27%

* The methodological change, adopted in 2021, to align with the requirements of the GRI 306 2020 indicator limits the comparability of the waste data to total hazardous, total non-hazardous, due to unavailability of higher detail in previous years.

** Indicators calculated in accordance with the GRI 306 - 2020 *standard* update. The energy recovery operation (R1) is classified as a recovery activity under national law.

Emissions

Figure 36 Total emissions (t) [GRI 305-1_2_6_7]

	2019	2020	2021
CO ₂ from combustion processes	1,163,222	1,141,439	1,158,388
Biogenic emissions	1,183,778	1,488,149	1,500,460
CO ₂ from motor vehicles	44,646	42,612	50,233
CO ₂ indirect from energy acquisition			
Location based ¹	17,341	19,133	19,290
Market based ²	28,085	4,215	302
Fluorinated gases (t CO _{2eq})	303	329	350
of which SF ₆ (Kg)	0	0.99	0
NO _x	851.16	811	1133
SO ₂	52.83	73	58
Powders	7.0	9.0	7.2
Methane (CH ₄) - biogas losses released in landfills (t CO _{2eq})	78,701	43,042	22,660
Dioxins (grams - toxic equivalency)	0.032	0.029	0.036
Dioxin-like PCBs (polychlorinated biphenyls) (grams - toxic equivalency)	0.0070	0.0090	0.0033

Figure 37 Percentage of energy produced by the valorisation of waste in relation to total production (thousands of m³) [G4-EU2]

	2019	2020	2021
Thermal energy from waste-to-energy and biogas process	58%	59%	58%
Electricity from waste-to-energy and biogas process	7%	8%	8%

¹ The reporting standard used (GRI Sustainability Reporting Standards 2018) provides two different approaches for calculating Scope 2 emissions: Location-based and market-based. The "Location-based" approach involves the use of a national average emission factor related to the specific national energy mix for power generation (source of emission factors: ISPRA Report 317/2020).

² The market-based approach refers to contractual agreements entered into with the electricity supplier. In the absence of specific contractual agreements between the Group companies and the electricity supplier (e.g. purchase of Guarantee of Origin certificates), the emission factor relating to the national "residual mix" (source of the AIB European Residual Mixes 2017 (Version 1.13, 2018-07-11) was used for this approach.

Natural capital in the Generation and Trading BU

Resources and materials used

Figure 38 Resources used [GRI 301-1; GRI 302-1_2; GRI 303-5]

	2019	2020	2021
Fuel (TJ)			
Natural gas	64,339	62,604	71,389
Coal	9,604	1,177	1,690
Oil (OCD, diesel)	9,787	8,835	18,258
Automotive fuels (TJ)			
Petrol	2.03	2.79	0.09
Diesel	4.31	5.46	1.05
Methane	0.01	0.00	0.01
Energy (GWh)			
Electricity for plant self-consumption		378	485
Electricity withdrawn from the grid	177	202	213
of which renewable		202	211
of which renewable		-	-
Chemical products and materials (t)			
Mineral acids	204	236	235
Water additives/conditioners	133	232	183
Ammonia (solution)	557	270	457
Lime and solid neutralisers	14,676	10,250	12,758
Active carbon	0	0	20
Sodium chloride	0	4	7
Technical gases (nitrogen, CO ₂ , hydrogen, oxygen)	67	68	83
Sodium hydroxide (solution)	180	186	174
Methanol, solvents and other products	23	21	32
Oils and lubricants	95	113	120
Total chemical products	15,935	11,380	14,069

Withdrawals

Figure 39 Water withdrawal (thousands of m³) [GRI 303-3]

	2019	2020	2021
Water withdrawn for process consumption	From Aqueduct	99	85
	From Well	2,347	1,922
	From surface water body - fresh water	218	282
	From third parties - fresh water	47	54
	From surface water body - salt/sea water	707	618
	Total	3,418	2,961
Derived water for hydroelectric use	From surface water body - fresh water for hydroelectric production	3,082,634	3,108,050
Water derived and returned for cooling	From surface water body - fresh water for cooling	910,481	842,788
	Surface water body - salt/sea water for cooling	424,753	278,798
	Total	1,335,234	1,121,586

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Figure 40 Discharges, returned water (water in thousands of m³) [GRI 303-4]

	2019	2020	2021
Industrial wastewater discharged	In the sewer	207	188
	In surface water body (fresh water)	3,990	4,090
	In coastal waters/salt water channels	1,412	1,161
	Total discharged water	5,609	5,438
Recovered waters	Recovered in the production cycle	1,374	770
	% of total water withdrawn	40%	26%
Returned water (of hydroelectric derivation)		3,082,634	3,108,050
Returned (cooling) water	In surface water body (fresh water)	910,481	842,788
	In coastal waters/salt water channels	424,753	278,798
	Total	1,335,234	1,121,586
Pollutant discharges into surface water	BOD	6.1	4.8
	COD	18	15

Natural capital

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Relational capital

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NOTE: Salt/sea water is defined as marine or salt water with a concentration of dissolved solids (measured as sodium chloride) >1000 mg/l.

Waste*

Figure 41 Waste produced (t) [GRI 306]**

	2019	2020	2021
Non-hazardous waste			
Non-hazardous waste for material recovery			24,772
Total recovery			24,772
Non-hazardous waste other disposals			1,032
Non-hazardous waste at landfill			1,060
Total at disposal			2,092
Total non-hazardous waste produced	27,802	23,953	26,864
% non-hazardous waste recovered			92.2%
Hazardous waste			
Hazardous waste for material recovery			1,257
Total recovery			1,257
Hazardous waste for incineration			6
Hazardous waste other disposals			3,946
Hazardous waste at landfill			8
Total at disposal			3,959
Total hazardous waste produced	3,405	16,202	5,216
% hazardous waste recovered			24.1%

* The methodological change, adopted in 2021, to align with the requirements of the GRI 306 2020 indicator limits the comparability of the waste data to total hazardous, total non-hazardous, due to unavailability of higher detail in previous years.

** Indicators calculated in accordance with the GRI 306 - 2020 *standard* update. The energy recovery operation (R1) is classified as a recovery activity under national law.

Emissions

Figure 42 Total emissions (t) [GRI 305-1_2_6_7]

	2019	2020	2021
CO ₂ from combustion processes	5,228,056	4,260,787	5,518,988
CO ₂ from motor vehicles*	467	607	84
CO ₂ indirect from energy acquisition			
Location based**	52,736	57,573	56,142
Market based**	85,527	1,244	880
Fluorinated gases (t CO ₂ eq.)	1,440	1,250	5,355
of which SF ₆ (Kg)***	45	37	188
NO _x	1,886	1,416	1,680
SO ₂	747	393	437
Powders	49	31	24
Other metals (Sb + As + Pb + Cr + Cu + Mn + Ni + V + Sn+Cd+Ti)**** (kg)	48	237	928
Dioxins (grams - toxic equivalency)	0.002	0.0003	0.0002

* The reduction is due to both improved data reporting and efficiency gains in consumption.

** See notes on page 35.

*** The indicator includes the new parameters (Pd+Pt+Rh+Sn) prescribed at the San Filippo del Mela Plant.

**** The variation compared to previous years is due to accidental losses occurred on High Voltage circuit breakers.

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The Acsm Agam Group

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Natural capital in the Smart Infrastructures BU

Resources and materials used

Figure 43 Resources used [GRI 301-1; GRI 302-1_2; GRI 303-5]

	2019	2020	2021
Fuel (TJ)			
Natural gas	3,297	4,039	5,742
Coal	1,805	1,075	-
Oil (OCD, diesel)	0.1	0.1	0.1
Biogas (from group purification plants)	12	10	7
Automotive fuels (TJ)			
Petrol	10	10	11
Diesel	18	18	19
Methane	9	9	12
Energy (GWh)			
Electricity for plant self-consumption		40	38
Electricity consumed	114	108	118
of which renewable		99	117
Heat consumed for heating premises*		2	2
Heat energy (GWh - purchased from external sources)	464	464	505
Chemical products and materials (t)			
Mineral acids	628	601	512
Water additives/conditioners	8,235	9,098	8,690
Lime and solid neutralisers	1,225	841	0
Active carbon	72	67	42
Sodium chloride	21	19	38
Technical gases (nitrogen, CO ₂ , hydrogen, oxygen)	141	190	213
Sodium hydroxide (solution)	196	170	169
Methanol, solvents and other products	998	1,011	957
Odorants	58	57	74
Oils and lubricants	57	35	31
Urea (solution)	668	529	361
Total chemical products	12,299	12,618	11,088

* It also includes heat used for industrial purposes.

Withdrawals

Figure 44 Water withdrawal (thousands of m³) [GRI 303-3]

		2019	2020	2021
Water withdrawn for process consumption	From Aqueduct	721	800	814
	From Well	623	640	614
	Total	1,344	1,440	1,428
Water derived and returned	From surface water body - fresh water	3	0.1	-
	From acquifer	1,716	2,179	1,861
	Total	1,719	2,179	1,861
Water withdrawn for distribution to water service users (millions of m³)		93	92	93

Effluents

Figure 45 Discharges, returned water and drinking water distributed (thousands of m³) [GRI 303-4]

		2019	2020	2021
Industrial wastewater discharged	In the sewer	370	308	379
	In surface water body (fresh water)	216	229	255
	Total discharged water	586	537	634
Recovered waters	Recovered in the production cycle	11.0	12.0	11.2
	% of total water withdrawn	0.8%	0.8%	0.8%
	In surface water body (fresh water)	3	-	-
Returned (cooling) water	In the aquifer	1,716	2,179	1,861
	Total	1,719	2,179	1,861
Public water supplied to water service users (millions of m³)		54	54	56
Pollutant discharges into surface water (t)	BOD	1.1	0.9	0.6
	COD	5.3	6.6	1.7

* Salt/sea water is defined as marine or salt water with a concentration of dissolved solids (measured as sodium chloride) >1000 mg/l.

Waste*

Figure 46 Waste produced (t) [GRI 306]**

	2019	2020	2021
Non-hazardous waste			
Non-hazardous waste for material recovery			3,725
Non-hazardous waste for energy recovery			19,190
Total recovery			22,916
Non-hazardous waste other disposals			4,777
Total at disposal			4,777
Total non-hazardous waste produced	37,395	35,862	27,693
% non-hazardous waste recovered			82.7%
Hazardous waste			
Hazardous waste for material recovery			402
Total recovery			402
Hazardous waste other disposals			36
Total at disposal			36
Total hazardous waste produced	333	468	439
% hazardous waste recovered			91.7%

* The methodological change, adopted in 2021, to align with the requirements of the GRI 306 2020 indicator limits the comparability of the waste data to total hazardous, total non-hazardous, due to unavailability of higher detail in previous years.

** Indicators calculated in accordance with the GRI 306 - 2020 standard update. The energy recovery operation (R1) is classified as a recovery activity under national law.

Emissions

Figure 47 Total emissions (t) [GRI 305-1_2_6_7]

	2019	2020	2021
CO ₂ from combustion processes	377,631	329,704	307,845
CO ₂ from motor vehicles	2,575	2,539	2,858
CO ₂ indirect from energy acquisition			
Location based*	33,970	30,713	31,201
Market based*	55,092	1,399	489
Fluorinated gases (t CO ₂ eq.)	776	1,173	4,760
of which SF ₆ (Kg)	18	11	6
Methane (CH ₄) - losses from natural gas distribution networks (t CO _{2eq})	45,204	28,875	52,333
NO _x	133	101	115
SO ₂	117	73	0
Powders	0.2	0.2	0.1

* See notes on page 35.

Figure 48 Distributed Water Quality Analysis

Technical data	2019	2020	2021
Potability analysis – samples (no.)	13,300	11,222	11,537
Potability analysis – total parameters (no.)	279,808	219,240	233,143

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The Acsm Agam Group

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Natural capital in the Corporate BU

Resources used

Figure 49 Resources used [GRI 301-1; GRI 302-1_2; GRI 303-5]

	2019	2020	2021
Water (thousand m³)	177	143	135
Electricity distributed (GWh)	14	12	5
of which renewable	NA	12	5
Heat consumed for heating and cooling premises	6	7	5
of which renewable	NA	2	1
Fuel (TJ)			
Methane	26	18	9
Fuels (TJ)			
Petrol	3.6	2.6	6.1
Diesel	48	24	31
Methane	1.0	0.7	0.8
Electricity for vehicles GWh			0.013

Waste*

Figure 50 Waste produced (t) [GRI 306]**

	2019	2020	2021
Non-hazardous waste			
Non-hazardous waste for material recovery			11,487.85
Non-hazardous waste for energy recovery			42.02
Total recovery			11,530
Total non-hazardous waste produced	134.6	199.2	11,530
% non-hazardous waste recovered			100%
Hazardous waste			
Hazardous waste for material recovery			78.929
Total recovery			79
Hazardous waste to other disposals			0.69
Total at disposal			1
Total hazardous waste produced	18.2	6.5	79.6
% hazardous waste recovered			99%

* The methodological change, adopted in 2021, to align with the requirements of the GRI 306 2020 indicator limits the comparability of the waste data to total hazardous, total non-hazardous, due to unavailability of higher detail in previous years.

** Indicators calculated in accordance with the GRI 306 - 2020 standard update. The energy recovery operation (R1) is classified as a recovery activity under national law.

Emissions

Figure 51 Total emissions (t) [GRI 305-1_2_6_7]

	2019	2020	2021
CO ₂ from combustion processes	1,450	1,013	493
CO ₂ from motor vehicles	3,827	1,997	2,797
CO ₂ indirect from energy acquisition			
Location based*	4,027	3,392	1,425
Market based*	6,530	89	22
Fluorinated gases (t CO ₂ eq.)	165	35	277
of which SF ₆ (Kg)	0	0	0

* See notes on page 35 for methodology; In addition, the *Location based* 2020 figure is different than that published in the previous Integrated Report due to a change in calculation methodology.

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Human capital

Composition of personnel

Figure 52 Personnel by category and type of contract [GRI 102-8; 405-1]

	2019			2020			2021		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
Managers	147	27	174	145	26	171	154	31	185
Middle Managers	507	156	663	510	164	674	541	191	731
White-collar workers	3,266	1,464	4,730	3,337	1,524	4,861	3,525	1,743	5,269
Blue-collar workers	5,104	199	5,303	5,267	201	5,468	5,602	204	5,806
Permanent workers	9,024	1,846	10,870	9,259	1,915	11,174	9,822	2,169	11,991
Fixed-term workers	402	22	424	246	57	303	289	90	379
Managers	1	1	2	3	1	4	1	-	1
Middle Managers	1	-	1	1	-	1	-	-	-
White-collar workers	16	15	31	28	42	70	25	76	101
Blue-collar workers	384	6	390	214	14	228	263	14	277
Total	9,426	1,868	11,294	9,505	1,972	11,477	10,111	2,259	12,370
of which workers with part-time contracts	112	275	387	115	262	377	111	289	400
of which workers with full-time contracts	9,314	1,593	10,907	9,390	1,710	11,100	10,000	1,970	11,970
Workers with non-standard contracts* (temporary/interns/collaborators)	156	66	222	111	52	163	143	62	205

* Workers under non-standard contracts do not include consultants.

Figure 53 Personnel by type of contract applied [GRI 102-41]

	2019	2020	2021
Executive contracts	176	175	186
Electrical contracts	3,511	3,488	3,573
Single natural gas and water contracts	1,579	1,545	1,812
Commercial contracts	490	545	593
Municipal sanitation contracts	4,673	4,797	5,194
FISE contracts	804	872	909
Haulage contract	58	4	-
Other contracts	3	51	103
Total	11,294	11,477	12,370

Figure 54 Average number of employees in service

	2019	2020	2021
Total	11,311	11,431	12,282

Figure 55 Personnel by workplace (Italian Regions) [GRI 102-8]

	2019			2020			2021		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
Abruzzo	49	5	54	51	6	57	53	6	59
Calabria	78	1	79	75	1	76	71	1	72
Campania	197	18	215	197	19	216	201	21	222
Emilia Romagna	47	7	54	45	6	51	73	5	78
Friuli Venezia Giulia	143	4	147	125	4	129	119	3	122
Lazio	3	2	5	7	5	12	6	6	12
Liguria	57	4	61	83	5	88	93	7	100
Lombardy	8,531	1,795	10,326	8,563	1,895	10,458	9,159	2,180	11,339
Marche	7	4	11	7	4	11	-	-	-
Piedmont	107	22	129	107	20	127	112	24	136
Puglia	43	1	44	85	3	88	72	3	75
Sicily	156	5	161	157	4	161	149	3	152
Veneto	4	-	4	-	-	-	-	-	-
International	4	-	4	3	-	3	3	-	3
Total	9,426	1,868	11,294	9,505	1,972	11,477	10,111	2,259	12,370

Figure 56 Main foreign nationalities of employees*

	Number of employees	Percentage of minority employees out of total employees
Romanian	35	0.30%
Peruvian	27	0.20%
Albanian	25	0.20%
Moroccan	22	0.20%
Bulgarian	10	0.10%
Egyptian	10	0.10%
Other nationalities (non-Italian)	108	0.90%

* Calculated based on the employee's citizenship.

Figure 57 Number of hires and turnover rate, by age, gender and contract type* [GRI 401-1]

	2019			2020			2021		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
Permanent workers	438	86	524	528	120	648	608	197	805
Up to age 30	169	40	209	220	62	282	255	98	353
From 31 to 40	124	30	154	162	43	205	188	67	255
From 41 to 50	83	10	93	94	11	105	116	28	144
Over 50	62	6	68	52	4	56	49	4	53
Fixed-term workers	338	15	353	285	62	347	369	112	481
Up to age 30	131	14	145	125	40	165	155	74	229
From 31 to 40	102	1	103	69	14	83	99	27	126
From 41 to 50	82	0	82	77	8	85	83	8	91
Over 50	23	0	23	14	0	14	32	3	35
Total	776	101	877	813	182	995	977	309	1,286
Percentage of new employees out of total workforce	8.23%	5.41%	7.77%	8.55%	9.23%	8.67%	9.66%	13.68%	10.40%

* The turnover rate was calculated according to the following formula: (outgoing) / (employees) at Dec. 31.

Figure 58 Selection costs (Hiring Cost)* (thousands of euro)

	2019	2020	2021
Total	2,805	2,209	2,738

* Limited to the A2A Group.

Figure 59 Workers leaving, by age bracket [GRI 401-1]

	2019					2020					2021				
	Up to 30	31-40	41-50	Over 50	Total	Up to 30	31-40	41-50	Over 50	Total	Up to 30	31-40	41-50	Over 50	Total
Retirement	0	0	0	288	288	0	0	0	388	388	0	0	0	400	400
Voluntary resignation	52	68	39	69	228	47	56	47	35	185	98	121	57	19	295
Decease	0	1	3	10	14	0	0	4	14	18	0	0	5	21	26
Dismissal	10	16	29	30	85	4	9	15	61	89	11	8	13	50	82
Other (e.g., end of fixed-term contract)	68	57	32	18	175	76	53	55	50	234	97	60	55	19	231
Total	130	142	103	415	790	127	118	121	548	914	206	189	130	509	1,034
Turnover rate	12.99%	6.34%	3.13%	8.71%	6.99%	11.18%	4.85%	3.77%	11.67%	7.96%	15.41%	7.10%	3.88%	10.14%	8.36%
Voluntary turnover rate**	4.90%	2.95%	1.15%	5.69%	3.76%	4.14%	2.30%	1.46%	9.01%	4.99%	7.33%	4.55%	1.70%	8.35%	5.62%

* The turnover rate was calculated according to the following formula: (departures) / (employees) at December 31.

** Intended as the ratio of voluntary outgoing employees and retirement to total employees.

Figure 60 Workers leaving, by gender [GRI 401-1]

	2019			2020			2021		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
Retirement	267	21	288	358	30	388	372	28	400
Voluntary resignation	198	30	228	148	37	185	239	56	295
Decease	14	0	14	18	0	18	24	2	26
Dismissal	68	17	85	70	19	89	62	20	82
Other (e.g., end of fixed-term contract)	161	14	175	221	13	234	193	38	231
Total	708	82	790	815	99	914	890	144	1,034
Turnover rate*	7.51%	4.39%	6.99%	8.57%	5.02%	7.96%	8.80%	6.37%	8.36%
Voluntary turnover rate**	4.11%	2.03%	3.76%	5.32%	3.40%	4.99%	6.04%	3.72%	5.62%

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Welfare and Diversity

Figure 61 Personnel by age bracket and gender [GRI 405-1]

	2019										2020										2021							
	Managers		Middle Managers		White-collar workers		Blue-collar workers		Total	Managers		Middle Managers		White-collar workers		Blue-collar workers		Total	Managers		Middle Managers		White-collar workers		Blue-collar workers		Total	
	U	D	U	D	U	D	U	D		U	D	U	D	U	D	U	D		U	D	U	D	U	D	U	D		
Up to age 30	-	-	1	2	271	154	569	4	1,001	-	-	2	1	332	196	597	8	1,136	-	-	1	1	391	273	660	11	1,337	
From 31 to 40	7	-	89	26	600	407	1,068	41	2,238	10	1	94	28	720	464	1,079	38	2,434	10	2	102	37	828	533	1,115	34	2,661	
From 41 to 50	49	16	162	65	775	434	1,697	93	3,291	42	13	158	71	721	432	1,673	100	3,210	34	12	171	83	749	479	1,733	91	3,352	
Over 50	92	12	256	63	1,636	484	2,154	67	4,764	96	13	257	64	1,592	474	2,132	69	4,697	111	17	267	70	1,582	534	2,357	82	5,020	
Average age of employees	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	54	52	50	48	47	43	46	48	46	
Total	148	28	508	156	3,282	1,479	5,488	205	11,294	148	27	511	164	3,365	1,566	5,481	215	11,477	155	31	541	191	3,550	1,819	5,865	218	12,370	

Figure 62 Personnel by protected categories [GRI 405-1]

	2019			2020			2021		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
Cat. Pro. (Art.18 para.2 Law 68/99)	36	15	51	34	14	48	33	13	46
People with disabilities	302	87	389	277	74	351	263	74	337
Total	338	102	440	311	88	399	296	87	383

Figure 63 Personnel by position and company seniority [G4-EU15]

	2019						2020						2021					
	Managers	Middle Managers	White-collar workers	Blue-collar workers	Total	%	Managers	Middle Managers	White-collar workers	Blue-collar workers	Total	%	Managers	Middle Managers	White-collar workers	Blue-collar workers	Total	%
Up to age 10	61	213	1,481	2,323	4,078	36.1%	62	217	1,716	2,398	4,393	38.3%	64	241	2,097	2,752	5,154	41.7%
From 11 to 20	65	193	934	1,705	2,897	25.7%	67	213	1,022	1,786	3,088	26.9%	67	248	1,158	1,893	3,366	27.2%
From 21 to 30	38	120	1,200	1,085	2,443	21.6%	34	108	1,071	994	2,207	19.2%	38	99	937	886	1,960	15.8%
Over 30	12	138	1,146	580	1,876	16.6%	12	137	1,122	518	1,789	15.6%	17	144	1,177	552	1,890	15.3%
Total	176	664	4,761	5,693	11,294	100.0%	175	675	4,931	5,696	11,477	100.0%	186	732	5,369	6,083	12,370	100.0%

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Figure 64 Personnel by educational qualification*

	2019				2020				2021			
	Men	Women	Total	%	Men	Women	Total	%	Men	Women	Total	%
Undergraduate degree	1,143	619	1,762	15.6%	1,280	703	1,983	17.3%	1,424	833	2,257	19.2%
Secondary school diploma	3,711	924	4,635	41.0%	3,828	960	4,788	41.7%	3,945	1,013	4,958	42.2%
Vocational degree	635	66	701	6.2%	635	60	695	6.1%	620	55	675	5.7%
Compulsory schooling	3,937	259	4,196	37.2%	3,765	246	4,011	34.9%	3,638	234	3,872	32.9%
Total	9,426	1,868	11,294	100%	9,508	1,969	11,477	100%	9,627	2,135	11,762	100%

* Does not include AEB Group data.

Personnel training and development

Figure 65 Training delivered by role [GRI 404-1]

	2019				2020				2021			
	Number of hours		Average annual hours of training per employee		Number of hours		Average annual hours of training per employee		Number of hours		Average annual hours of training per employee	
	U	D	U	D	U	D	U	D	U	D	U	D
Managers	4,535	1,049	30.64	37.45	1,899	389	12.83	14.42	4,362	1,041	28.14	33.58
Middle Managers	22,952	6,355	45.18	40.74	10,920	3,478	21.37	21.21	21,149	7,279	39.09	38.11
White-collar workers	78,960	22,108	24.06	14.95	64,758	24,552	19.24	15.68	93,695	37,105	26.39	20.40
Blue-collar workers	64,494	837	11.75	4.08	41,585	914	7.59	4.25	60,152	1,063	10.26	4.87
Total	170,940	30,349	18.13	16.25	119,162	29,333	12.54	14.87	179,358	46,487	17.74	20.58

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Figure 66 Training delivered by age bracket [GRI 404-1]

	2019				2020				2021			
	Number of hours		Average annual hours of training per employee		Number of hours		Average annual hours of training per employee		Number of hours		Average annual hours of training per employee	
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
Up to age 30	22,937	4,020	27.27	25.12	20,268	4,880	21.77	23.81	27,491	7,114	26.13	24.96
From 31 to 40	32,647	8,484	18.51	17.90	25,977	8,441	13.65	15.90	42,956	12,949	20.90	21.37
From 41 to 50	44,545	9,493	16.60	15.61	27,194	8,422	10.48	13.67	46,139	13,949	17.17	20.98
Over 50	70,811	8,352	17.11	13.34	45,723	7,590	11.21	12.24	62,771	12,475	14.54	17.75
Total	170,940	30,349	18.13	16.25	119,162	29,333	12.54	14.87	179,358	46,487	17.74	20.58

Figure 67 - Health and safety training

	2019	2020	2021
Training hours	96,067	66,722	111,682

Figure 68 Cost of training

	2019	2020	2021
Euro	1,800,839	1,433,437	1,470,932
% of training costs covered by inter-professional funds	37%	37%	42%

Figure 69 Employees trained in the year (percentage of total)

	2019	2020	2021
Percentage	81%	73%	76%

Figure 70 Attendance of training courses (number)

	2019	2020	2021
Total	54,465	99,208	73,248

Figure 71 Percentage of employees who regularly receive performance assessments [GRI 404-3]

	2019	2020	2021
Percentage	49%	50%	48.51%

Figure 72 Third-party employees that have undergone relevant health and safety training (number)

	Number of employees involved	Training hours provided
2019	3,702	6,176
2020	808	1,373
2021	1,054	1,631

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Occupational health and safety

Figure 73 Data on injuries* [GRI 403-2]

	2019	2020	2021
Number of accidents (excluding commuting)	461	325	423
Men	436	308	401
Women	25	17	22
of which with severe consequences**	-	7	3
Number of days of absence	11,238	10,312	10,364
Average duration	24.38	31.73	24.50
Frequency Index (FI)	24.95	17.69	20.91
Severity Index (SI)	0.61	0.56	0.51
Occurrence Index (OI)	7.4	4.3	5.3
Commuting accidents	86	50	66
Lost Time Injury Rate (LTIR with 200,000)	4.99	3.54	4.18

* When calculating indices, only professional accidents, that result in at least one day of absence, not including the day of the event, are considered. Medications and precautionary absences and unrecognised accidents are therefore excluded. Professional accidents also include those that occur in transit, with or without a vehicle. The table counts all injuries involving employees.

FI = frequency index (no. accidents x 1,000,000: hours worked)

SI = severity index (no days of absence x 1,000: hours worked)

OI = incidence index (no accidents x 1,000: headcount) – it is calculated on the number of commuting accidents.

LTIR= no. accidents x 200,000 hours worked

Commuting accidents: accidents suffered by workers while commuting from home to work and vice-versa (but not while in service).

Figure 74 Percentage of workers represented in formal health and safety committees [GRI 403-1]

	2019	2020	2021
Percentage of the total	100%	100%	100%

Figure 75 Health data by BU

	Generation and Trading BU			Market BU			Environment BU			Smart infrastructures BU			Corporate			Total		
	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Visits as per 81/08	672	548	751	337	195	535	5,790	5,143	4,039	1,361	1,192	1,666	536	266	712	8,696	7,344	7,703
Tox visits	114	180	171	27	24	27	2,292	2,120	2,759	368	369	471	12	1	1	2,813	2,694	3,429
Assessments	1,797	1,325	1,530	406	194	506	13,686	9,539	8,593	2,885	1,740	2,190	632	266	678	19,406	13,064	13,497
Flu vaccination	13	84	76	71	170	186	274	550	466	304	567	568	227	341	312	889	1,712	1,608
Vaccinations	11	8	9	18	6	0	1,497	1,283	629	174	97	124	18	3	0	1,718	1,397	762
Site inspections	17	16	28	7	11	16	67	44	57	35	24	23	8	13	10	134	108	134
Reporting occupational illness	8	3	8	0	0	0	11	9	7	1	0	1	0	0	0	20	12	16
Health provisions	17	17	17	5	5	5	27	27	27	9	9	9	7	7	7	65	65	65
Specialist visits	0	0	0	0	0	1	125	26	23	5	0	23	0	0	0	130	26	47

Absenteeism

Figure 76 Number of working days lost by gender [GRI 403-2]

	2019		2020		2021	
	Men	Women	Men	Women	Men	Women
Illness	106,409	18,946	125,453	17,649	121,744	16,105
Unpaid leave/absence	6,414	1,028	4,585	494	6,641	1,689
Company strikes	-	-	-	-	-	-
National strikes	30	3	5	1	4,013	300
Accidents	11,355	1,062	10,876	682	13,959	700
Total	124,208	21,039	140,919	18,826	146,357	18,794
Total days worked by the workforce in the reporting period	2,488,184	465,105	2,532,261	489,561	2,707,427	553,211
Absentee Rate	5%	5%	6%	4%	5%	3%

* It should be noted that the figures presented in this table refer solely to working days lost due to accidents and not to calendar days lost, which are used to calculate the severity index.

Figure 77 Incident indices of contractors and subcontractors for construction and maintenance works [GRI 403-2_G4-EU17]

	No. of hours worked by contractors	No. Deceased	No. of accidents	No. of accidents with severe consequences	Days lost	Frequency index	Severity index
2019	4,492,370	0	25	n.a.	278	5.56	0.06
2020	2,945,274	0	22	2	736	7.47	0.25
2021**	4,507,139	1	42	3	9,129	9.33	2.03

* The indicator does not include AEB, Fragea and Agripower.

** Number of days lost 2021 includes days lost equal to the remaining working life of the deceased contractor.

Figure 78 Rate of days lost* (total number of days lost for injury or illness out of total working hours by the workforce in the reporting period) [GRI 403-2]

	2019			2020			2021		
	Men	Women	General total	Men	Women	General total	Men	Women	General total
Days lost due to occupational illness	-	-	-	-	-	-	-	-	-
Days lost to accidents	11,355	1,062	12,417	10,876	682	11,558	13,959	700	14,659
Total workable hours of the workforce in the reporting period	18,063,290	3,386,063	21,449,353	18,265,462	3,568,847	21,834,309	19,271,291	4,009,527	23,280,817
Total hours worked by the workforce in the reporting period	15,693,976	2,801,174	18,495,150	15,459,541	2,908,822	18,368,362	16,817,777	3,413,159	20,230,935
Lost day rate	0.06%	0.03%	0.06%	0.06%	0.02%	0.05%	0.07%	0.02%	0.06%

* Days lost means days on which work cannot be performed due to an occupational accident or occupational illness. They are not counted if there is a partial return to working activity. Occupational illness" is defined as an illness caused by the working environment or professional activity (e.g., stress or regular exposure to harmful chemical substances) or resulting from an accident.

Figure 79 Return to work and retention rates after parental leave*

	2019		2020		2021	
	Men	Women	Men	Women	Men	Women
Employees who took parental leave	338	219	312	168	371	170
of whom, employees who returned to work in 2019	328	183	0	0	0	0
of whom, employees who returned to work in 2020	-	-	308	150	0	0
of whom, employees who returned to work in 2021	-	-	-	-	358	141
Employed by the company 12 months after return	-	-	-	-	304	142

* Employees who did not return to work relative to 2020 have not necessarily resigned, but are continuing their leave.

Figure 80 Union membership

	2019	2020	2021
Members of Trade Unions	4,831	4,749	5,035

Figure 81 Hours of strikes

	2019	2020	2021
Total strike hours	237	42	29,572
Strike hours per capita*	0	0	2

* Per capita hours are calculated on the average headcount.

Benefits and remuneration

Figure 82 Contributions to Recreational and Welfare Circles

	2019	2020	2021
Total (€)	5,325,796	5,522,525	5,918,051

Figure 83 Gender remuneration broken down by quartiles

	2020	2021
Share of women among the Top 10% of highest paid employees	14.12%	15.63%
Percentage of women in the first pay quartile globally	15.69%	16.94%
Percentage of women in the upper-middle global pay quartile	18.93%	19.72%
Percentage of women in the lower-middle global pay quartile	17.13%	18.63%
Percentage of women in the lowest global pay quartile	17.02%	17.84%

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Relations with customers

Electricity and natural gas sales service

Figure 84 Electricity sold to end customers (GWh)

	2019	2020	2021
Total	13,278	14,555	18,020

Figure 51 Gas sold to end customers (Mm³)

	2019	2020	2021
Total	1,987	1,878	2,275

Figure 85 Electricity supply contracts by type of market

	2019	2020	2021
Protected market	476,269	429,707	369,899
Free market	749,554	890,070	1,013,943
Gradual protection market			62,534
Safeguard market			18,486
Total	1,225,823	1,319,777	1,464,862

Figure 86 Electricity supply contracts by type of customer

	2019	2020	2021
Domestic	946,223	961,835	1,063,108
SME	139,574	152,167	200,809
Large customers	82,158	135,805	127,633
Condominiums	34,498	37,458	39,884
Public lighting	23,370	32,512	33,428
Total	1,225,823	1,319,777	1,464,862

Figure 87 Gas supply contracts by type of market

	2019	2020	2021
Protected market	597,714	548,400	539,738
Free market	645,009	699,146	826,423
Total	1,242,723	1,247,546	1,366,161

Figure 88 Natural gas supply contracts by type of customer [G4 - EU3]

	2019	2020	2021
Domestic	1,159,003	1,162,058	1,274,612
SME	67,482	58,819	63,063
Large customers	7,663	17,754	18,722
Condominiums	8,575	8,915	9,764
Total	1,242,723	1,247,546	1,366,161

Figure 89 Geographic breakdown of electricity sales volumes

	2019	2020	2021
Lombardy	65%	53%	60%
Rest of Italy	35%	47%	40%

Figure 90 Geographic breakdown of gas sales volumes

	2019	2020	2021
Lombardy	72%	78%	74%
Rest of Italy	28%	22%	26%

Figure 91 Cerved Energy Monitor survey on the level of satisfaction of A2A Energia customers

Service supplied	Business segment	2018			2019			2020		
		CSI	Market standard	Position*	CSI	Market standard	Position*	CSI	Market standard	Position*
Gas	Domestic	93.3	92.0	1 of 7	91.9	92.9	2 of 7	93.1	93.4	3 of 7
	VAT reg. & SME	93.8	93.4	1 of 6	94.7	94	1 of 6	96.3	95.5	1 of 5
Electricity	Domestic	91.7	91.1	5 of 9	92.2	91.6	3 of 9	93.2	92.2	3 of 8
	VAT reg. & SME	91.1	91.7	3 of 10	93.1	93	4 of 11	95	95	3 of 11

* The position in the rankings derives from the comparison of the performance of A2A Energia with that of the main market players, apart from the macro category of "Other suppliers", which combines several operators and whose results cannot be read individually due to the number of associated interviews.

Figure 92 Customer satisfaction on call centre operations

	2018 (annual)	2019 (annual)	2020 (annual)
A2A Energia	98.1%	95.4%	94.6%
National average	92.3%	92.0%	90.1%

* In 2021, the 2020 figure was published.

Figure 93 Customer satisfaction after a call to the call centre (percentage on assessments recorded) - A2A Energia

	2019	2020	2021
score 1 (very dissatisfied)	5.4%	5.3%	6.7%
score 2 (dissatisfied)	2.2%	2.3%	2.4%
score 3 (satisfied)	8.0%	6.7%	5.9%
score 4 (very satisfied)	84.4%	85.7%	85.0%

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Figure 94 Electricity and natural gas complaint trends

	2019	2020	2021
A2A Energia - number of complaints	4,281	5,792	6,121
Lineapiù - Number of complaints	1,766	-	-
Yada Energia (NeN) - Number of complaints	-	39	285
Lumenergia - Number of complaints	6	9	22
Gelsia - Number of complaints			573
ASM Energia	n.a.	n.a.	762
A2A Energia complaints percentage out of average no. of customers	0.20%	0.23%	0.25%
Lineapiù complaints percentage out of average no. of customers	0.55%	-	-
Lumenergia complaints percentage out of average no. of customers	0.05%	0.08%	0.20%
Yada Energia (NeN) complaints percentage out of average no. of customers	-	0.51%	0.73%
AEB - complaints percentage out of average no. of customers			0.29%
ASM Energia - complaints percentage out of average no. of customers	n.a.	n.a.	n.a.

* From May 1, 2019, Linea Più was incorporated into A2A Energia. As a result of this transaction, the 2019 figures have been included in A2A Energia's figures.

Figure 95 Electricity bill cost trends (in euro) for a typical household*

	A2A Energia			YADA Energia (NeN)		ASM Energia	
	2019	2020	2021	2020	2021	2020	2021
Sales services	253.92	198.72	370.64	264.68	529.74	237.80	370.64
Network services	231.75	218.46	181.15	218.44	174.10	259.50	181.15
Tax	21.79	21.94	21.82	21.79	21.79	22.88	21.82
VAT	50.75	43.91	57.36	50.49	72.56	51.82	57.36
Total	558.21	483.03	630.97	555.40	798.19	572.00	630.97

* For electricity, the Authority took as an example a resident domestic use contract, with 3 kW of available power and an average annual use of 2,700 kWh.

Figure 96 Cost trends in the natural gas bill in euro for a typical household*

	A2A Energia			YADA Energia (NeN)		ASM Energia	
	2019	2020	2021	2020	2021	2020	2021
Sales services	419.18	309.33	522.17	337.93	913.86	323.20	522.17
Network services	248.71	239.12	237.37	234.22	264.94	242.70	237.37
Tax	224.68	224.68	224.68	224.68	224.68	232.00	224.68
VAT	180.63	159.27	155.39	147.45	256.08	148.10	155.39
Total	1,073	932.40	1,140	944.28	1,659.56	946.00	1,139.61

* For gas, domestic use with independent heating in the north-east and an annual use of 1,400 m³ was taken as the example by the Authority.

Figure 97 Office visits

	2019	2020	2021
Total number of customers served	240,354	134,399	185,995
A2A Energia	168,054	89,065	146,336
Lumenergia	-	3,853	4,816
AEB	-	-	34,843
Average office waiting time in minutes			
A2A Energia	12'54"	5'30"	5'12"
Lumenergia	n.a.	n.a.	n.a.
AEB	-	-	25'

Figure 98 Customer satisfaction on the services provided at the counter

	2019	2020	2021
Positive	98.7%	99.6%	99.4%
Negative	1.3%	0.4%	0.6%

Figure 99 Number of electricity and gas contracts with the Bollett@mail service

	2019	2020	2021
A2A Energia	458,659	916,534	1,093,616
Lumenergia	1,362	1,457	2,333
ASM Energia	-	4,971	6,399
Yada Energia	-	16,629	51,032
Gelsia	-	-	37,096
Total	536,143	939,591	1,190,476
Increase (percentage)	23.7%	75.3%	26.7%

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Figure 100 Number of visits to the commercial websites

	2019	2020	2021
Total number of visits	5,135,493	10,269,646	12,806,487
Registered with the online counter	425,985	517,168	636,493

Figure 101 Green energy sold (GWh)

Market segment	2019	2020	2021
Government	2%	5%	28%
Mass market	51%	33%	37%
Others	47%	62%	36%
Total GWh	2,276	3,858	4,976

Electricity and natural gas distribution service

Figure 102 Extension of the electricity distribution service [G4 – EU3_EU4]

	2019	2020	2021
Customers connected	1,190,375	1,204,394	1,219,703

* Weighted average number of POD active during the year calculated on the basis of ARERA and CSEA provisions and valid for tariff purposes.

Figure 103 Extension of the gas distribution service* [G4 – EU3_EU4]

	2019	2020	2021
Customers connected	1,502,645	1,420,545	1,710,707

* Weighted average number of PDR active during the year calculated on the basis of ARERA and CSEA provisions and valid for tariff purposes

Figure 104 Technical quality of electricity [G4 – EU29_EU28]

Milan												
Service continuity indicator	High density area				Medium density area				Low density area			
	2019	2020	2021	ARERA 2021 objective	2019	2020	2021	ARERA 2021 objective	2019	2020	2021	ARERA 2021 objective
Average annual minutes of outage per LV user due to long outages without notice	32.81	33.80	38.75	25	34.55	47.11	45.37	40	N/A	N/A	N/A	N/A
Average annual number of outages per LV user due to long outages without notice	1.51	1.57	1.55	1.42	1.76	1.98	2.61	2.03	N/A	N/A	N/A	N/A

Brescia												
Service continuity indicator	High density area				Medium density area				Low density area			
	2019	2020	2021	ARERA 2021 objective	2019	2020	2021	ARERA 2021 objective	2019	2020	2021	ARERA 2021 objective
Average annual minutes of outage per LV user due to long outages without notice	8.81	8.91	7.15	25	22.48	23.71	24.38	40	29.45	30.19	31.47	60
Average annual number of outages per LV user due to long outages without notice	0.83	0.84	0.84	1.0	2.29	2.64	1.9	2.0	3.07	2.64	2.84	4.0

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Figure 105 Technical quality of electricity [G4 – EU29_EU28]

Service continuity indicator	Cremona											
	High density area				Medium density area				Low density area			
	2019	2020	2021	ARERA 2021 objective	2019	2020	2021	ARERA 2021 objective	2019	2020	2021	ARERA 2021 objective
Average annual minutes of outage per LV user due to long outages without notice	9.10	7.00	13.00	25	N/A	N/A	N/A	N/A	12.90	24.00	7.00	60
Average annual number of outages per LV user due to long outages without notice	0.29	0.40	0.30	1	N/A	N/A	N/A	N/A	0.78	1.50	1.00	4

Figure 106 Electricity emergency service [G4 – EU28]

	Milan			Brescia		
	2019	2020	2021	2019	2020	2021
No. MV customers with more than 6 interruptions per year for high density areas	12	29	30	0	2	0
No. of MV customers with more than 8 interruptions a year for medium-concentration areas	0	0	0	4	4	0
No. MV customers with more than 9 interruptions per year for low density areas	N/A	N/A	N/A	3	18	2

In the event of an electricity shortfall, Terna - National Electrical Network requests that distributors implement a scheduled rotating outage plan in order to avoid a general blackout. There are five levels of severity of electricity shortfall used to determine the number of users involved and the frequency of outages. Terna informs customers of the outages, which have a maximum duration of 90 minutes, with advance notice of 30 minutes, and they may occur at any time during the hourly periods indicated, not necessarily at the beginning of each period. The scheduled outage plan prepared by A2A Reti Elettriche, by day and time slot, is available from the company's website.

Figure 107 SAIDI index

	2019	2020	2021
SAIDI Index	0.648	0.487	0.646

* Index calculated on the Milan area (high concentration), the most representative for the Group.
The average duration of interruption (expressed in hours) with long unannounced interruptions (>3 minutes), with MV and LV origin due to other causes (i.e. responsibility of the distributor), as provided for by ARERA indicators, was considered.

Figure 108 Electricity emergency service [G4 – EU28]

	Cremona		
	2019	2020	2021
No. MV customers with more than 6 interruptions per year for high density areas	0	0	0
No. of MV customers with more than 8 interruptions a year for medium-concentration areas	N/A	N/A	N/A
No. MV customers with more than 9 interruptions per year for low density areas	0	0	0

Figure 109 Commercial quality of electricity: specific indicators for the Milan-Brescia area [G4 – EU21]

Specific indicators	ARERA Level Res. 646/15	Services provided on the indicated timetable (%)			Average time to execute the service (days)		
		2019	2020	2021	2019	2020	2021
Time to prepare estimate for work on the network	15 working days for LV 30 working days for MV	96.34%	98.02%	95.77%	7.83	6.63	7.69
Execution time for simple work	10 working days for LV 20 working days for MV	98.22%	96.92%	95.64%	5.46	5.78	6.3
Execution time for complex work	50 working days	99.03%	98.03%	97.31%	13.21	15.13	17.07
Activation time for LV/MV supply	5 working days	99.44%	99.37%	99.14%	0.63	0.6	0.61
Supply de-activation time	5 working days for LV 7 working days for MV	99.57%	99.24%	99.15%	0.64	0.57	0.66
Reactivation time following suspension due to non-payment	1 working day	99.75%	99.72%	99.67%	0.08	0.07	0.07
Observance of time bracket for appointments	2 hours	99.27%	99.57%	99.45%	n.a.	n.a.	n.a.
Time to restore service following failure of meter equipment during business days from 8 AM to 6 PM on the LV network	3 hours	76.58%	85.27%	89.24%	0.11	02:42	2h and 1min
Time to restore service following failure of meter equipment during non-working days from 6 PM to 8 AM on the LV network	4 hours	90.43%	94.54%	96.18%	0.10	02:07	1h and 52min
Time to report results of testing of LV/MV meter equipment	15 working days	75.35%	97.76%	98.50%	11.86	6.92	6.36
Time for notifying the result of the verification of voltage	20 working days	65.38%	76.92%	100.00%	21.31	22.23	13.8

* The position in the rankings derives from the comparison of the performance of A2A Energia with that of the main market players, apart from the macro category of "Other suppliers", which combines several operators and whose results cannot be read individually due to the number of associated interviews.

Figure 110 Commercial quality of electricity: specific indicators for the Cremona area [G4 – EU21]

Specific indicators	ARERA Level Res. 646/15	Services provided on the indicated timetable (%)			Average time to execute the service (days)		
		2019	2020	2021	2019	2020	2021
Time to prepare estimate for work on the network	15 working days for LV 30 working days for MV	100%	100%	100%	4.96	3.44	4.92
Execution time for simple work	10 working days for LV 20 working days for MV	100%	100%	99.25%	2.28	2.54	3.16
Execution time for complex work	50 working days for LV 50 working days for MV	100%	100%	100%	20.64	20.47	19.83
Activation time for LV/MV supply	5 working days	99.6%	100%	99.96%	0.35	0.28	0.28
Supply de-activation time	5 working days for LV 7 working days for MV	99.80%	99.02%	99.82%	0.56	0.54	0.51
Reactivation time following suspension due to non-payment	1 working day on zeroed 1 working day reduced 15%	99.64%	98.18%	99.74%	0.1	0.14	0.09
Observance of time bracket for appointments	2 hours	100%	100%	98.96%	-	-	-
Time to restore service following failure of meter equipment during business days from 8 AM to 6 PM on the LV network	3 hours	100%	100%	100%	1h and 13 min	1 h and 6 min	1 h and 16 min
Time to restore service following failure of meter equipment during non-working days from 6 PM to 8 AM on the LV network	4 hours	100%	100%	100%	1h and 27 min	1 h and 23 min	1 h and 24 min
Time to report results of testing of LV/MV meter equipment	15 working days	100%	100%	100%	8.38	4.25	6
Time for notifying the result of the verification of voltage	20 working days	NA	NA	100%	NA	NA	11

Figure 111 Commercial quality of electricity: specific indicators for the Monza area [G4 – EU21]

Specific indicator	ARERA Level Res. 646/15	Services provided on the indicated timetable (%)	Average time to execute the service (days)
		2021	
Time to prepare estimate for work on the network	15 working days for LV 30 working days for MV	100.00	7.23
Execution time for simple work	10 working days for LV 20 working days for MV	98.98	5.64
Execution time for complex work	50 working days	100.00	15.5
Activation time for LV/MV supply	5 working days	99.74	0.94
Supply de-activation time	5 working days for LV 7 working days for MV	99.22	1.32
Reactivation time following suspension due to non-payment	1 working day	98.28	0.24
Observance of time bracket for appointments	2 hours	100.00	-
Time for reinstating supply following a fault in the measurement group on working days between 8:00 a.m. and 6:00 p.m. on the LV network	3 hours	100.00	1.27
Time for reinstating supply following a fault in the measurement group on working days between 8:00 and 18:00 on the LV network	4 hours	100.00	1.57
Time to report results of testing of LV/MV meter equipment	15 working days	-	-
Time for notifying the result of the verification of voltage	20 working days	-	-

Figure 112 Commercial quality of electricity: general indicators for the Milan Brescia area [G4 – EU21]

Type of service	ARERA level - LV	Services provided on the indicated timetable (%)		
		2019	2020	2021
Minimum percentage of detailed responses to written complaints or requests for information provided within the maximum period of 30 calendar days	95%	95.40%	96.78%	96.56%

Type of service	ARERA level - MV	Services provided on the indicated timetable (%)		
		2019	2020	2021
Minimum percentage of detailed responses to written complaints or requests for information provided within the maximum period of 30 calendar days	95%	98.86%	99.17%	94.87%

Figure 113 Commercial quality of electricity: general indicators for the Cremona area [G4 – EU21]

Type of service	ARERA level - LV	Services provided on the indicated timetable (%)		
		2019	2020	2021
Minimum percentage of detailed responses to written complaints or requests for information provided within the maximum period of 30 calendar days	95%	100%	100%	100%

Type of service	ARERA level - MV	Services provided on the indicated timetable (%)		
		2019	2020	2021
Minimum percentage of detailed responses to written complaints or requests for information provided within the maximum period of 30 calendar days	95%	100%	100%	83%

Figure 114 Commercial quality of electricity: general indicators for the Monza area [G4 – EU21]

Specific indicator	ARERA level - LV	Services provided on the indicated timetable (%)	
		2021	
Minimum percentage of detailed responses to written complaints or requests for information provided within the maximum period of 30 calendar days	95%		80.39

Operational sustainability targets 21-30

Stakeholder engagement and materiality analysis

Financial capital

Manufacturing capital

Natural capital

Human capital

Relational capital

The Acsm Agam Group

The AEB Group

Figure 115 Technical quality of natural gas [G4 – EU21]

	Lev. Base	Lev. level	Lev. Effective 2019						Lev. Effective 2020						Lev. Effective 2021						
			Milan	Brescia	Bergamo	Cremona	Lodi	Pavia	Milan	Brescia	Bergamo	Cremona	Lodi	Pavia	Milan	Brescia	Bergamo	Cremona	Lodi	Pavia	Monza
Annual percentage of the high and medium pressure network inspected	30%	90%	72%	0%	100%	100%	100%	100%	100%	0%	100%	100%	100%	100%	100%	0%	100%	100%	100%	100%	99%
Annual percentage of the low pressure network inspected	20%	70%	56%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%
Annual number of leaks located per km of network inspected	0.8	0.1	0.22	0.12	0.04	0.04	0.02	0.03	0.08	0.10	0.01	0.00	-	0.01	0.08	0.10	0.01	0.00	0.01	0.01	0
Annual number of leaks located in response to reports from third parties per km of network	0.8	0.1	0.17	0.08	0.02	0.03	0.01	0.02	0.15	0.07	0.01	0.02	0.01	0.02	0.14	0.07	0.03	0.01	0.02	0.01	0.1
Conventional number of measurements of degree of natural gas odorant per thousand end customers	0.19	0.5	0.95	1.73	1.88	1.70	1.80	1.10	0.96	1.85	1.41	1.70	1.8	1.1	0.93	1.82	1.62	1.70	1.80	1.10	2.3

Operational sustainability targets 21-30

Stakeholder engagement and materiality analysis

Figure 116 Natural gas emergency service [G4 – EU21]

Annual number of calls to the switchboard with a time to arrival of the team at destination <= 60 min			
Lev. Base 90%			
Lev. Ref. 95%			
	2019	2020	2021
Milan	98.37%	99.68%	99.23%
Brescia	100.00%	96.14%	96.26%
Bergamo	100.00%	100.00%	100.00%
Cremona	99.90%	99.90%	99.90%
Lodi	100.00%	100.00%	99.90%
Pavia	100.00%	99.80%	100.00%
Monza and Brianza	n.a.	n.a.	97.72%

Financial capital

Manufacturing capital

Natural capital

Human capital

Figure 117 Natural gas commercial quality: general indicators [G4 – EU21]

Services provided within the times indicated (%)	Level ARERA	Unareti			LD Reti			ASVT			Retipiù
		2019	2020	2021	2019	2020	2021	2019	2020	2021	2021
Percentage of requests to perform complicated jobs which were completed within a maximum of 60 working days	90%	98.71%	98.61%	99.60%	98.00%	98.00%	100.00%	100.00%	100.00%	100.00%	93.75%
Percentage of justified replies to written claims or information requests communicated within a maximum of 30 working days	95%	97.54%	98.64%	99.07%	98.00%	92.00%	100.00%	100.00%	100.00%	100.00%	80.84%

Relational capital

The Acsm Agam Group

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Figure 118 Gas commercial quality: specific indicators: Milan, Brescia, Bergamo and Chieti Area [G4 – EU21]

Type of service	ARERA Levels Res. 574/13	Service provided within the indicated timetable (%)			Average time to execute the service (days)		
		2019	2020	2021	2019	2020	2021
Estimating time (simple work)	15 working days	94.07%	98.92%	99.21%	8.46	4.68	4.23
Execution time (simple work)	10 working days	96.37%	96.58%	96.39%	6.84	6.85	7.16
Estimating time (complex work)	30 working days	95.70%	95.28%	90.49%	13.77	12.03	14.79
Supply activation time	10 working days	99.84%	99.85%	99.85%	3.18	3.19	3.23
Supply de-activation time	5 working days	99.66%	98.10%	98.99%	2.75	3.07	3.07
Reactivation time following suspension due to non-payment	2 working days	98.87%	98.56%	99.12%	1.12	1.11	1.03
Observance of time bracket for appointments	2 hours	99.85%	99.80%	99.82%	N/A	N/A	N/A
Time to notify results of testing of meter equipment	20 working days	93.18%	88.06%	87.61%	10.87	10.96	17.12

Figure 119 Natural gas commercial quality: specific indicators for LD Reti [G4 – EU21]

Type of service	ARERA levels Res. 574/13 of 01/01/2014	Services provided on the indicated timetable (%)			Average time to execute the service (days)		
		2019	2020	2021	2019	2020	2021
Estimating time (simple work)	15 working days	99.00%	100.00%	98.65%	4.13	3.42	4.55
Execution time (simple work)	10 working days	97.00%	96.00%	97.54%	3.67	3.67	4.24
Estimating time (complex works)	30 working days	100.00%	100.00%	98.68%	7.58	2.62	5.22
Supply activation time	10 working days	90.00%	100.00%	99.88%	3.03	2.97	2.73
Supply de-activation time	5 working days	95.00%	97.00%	96.36%	2.66	2.86	2.69
Reactivation time following suspension due to non-payment	2 working days	95.00%	90.00%	95.92%	1.27	1.26	1.18
Observance of time bracket for appointments	2 hours	99.00%	99.00%	99.55%	N.A.	N.A.	N.A.
Time to notify results of testing of meter equipment	20 working days	83.00%	73.00%	86.67%	16.63	19.51	13.87

Figure 120 Natural gas commercial quality: specific indicators for ASVT [G4 – EU21]

Type of service	ARERA levels Res. 574/13 of 01/01/2014	Services provided on the indicated timetable (%)			Average time to execute the service (days)		
		2019	2020	2021	2019	2020	2021
Estimating time (simple work)	15 working days	100.00%	100.00%	97.96%	4.66	4.26	6.01
Execution time (simple work)	10 working days	100.00%	100.00%	100.00%	0.94	1.48	0.93
Estimating time (complex works)	30 working days	N/A	1.00	100.00%	1.00	7.19	5.74
Supply activation time	10 working days	99.89%	99.87%	99.88%	3.00	2.95	3.25
Supply de-activation time	5 working days	100.00%	98.67%	99.57%	2.20	2.16	2
Reactivation time following suspension due to non-payment	2 working days	100.00%	100.00%	100.00%	0.50	0.32	0.26
Observance of time bracket for appointments	2 hours	99.74%	99.84%	100.00%	N/A	N/A	N/A
Time to notify results of testing of meter equipment	20 working days	100.00%	75.00%	77.78%	18.50	15.00	18.67

Figure 121 Commercial quality of electricity: specific indicators for Retipiù [G4 – EU21]

Services provided on the indicated timetable (%)	Level ARERA Res. 574/13 of 01/01/2014	Services provided on the indicated timetable (%)	Average time to execute the service (days)
2021			
Estimating time (simple work)	15 working days	99.74	8.28
Execution time (simple work)	10 working days	97.34	5.60
Estimating time (complex works)	30 working days	96.30	20.72
Time for switching on supply	10 working days	99.98	3.58
Supply de-activation time	5 working days for LV	99.96	3.40
Reactivation time following suspension due to non-payment	2 working day	99.51	0.98
Observance of time bracket for appointments	2 hours	99.89	-
Time for notifying the result of the verification of measurement group	20 working days	72.45	25.75

Operational sustainability targets 21-30

Stakeholder engagement and materiality analysis

Financial capital

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Relational capital

The Acsm Agam Group

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Integrated water service

Figure 122 Extension of the integrated water service [G4 - EU3]

	2019	2020	2021
Municipalities served by Integrated Water Service	95	95	95
Municipalities served by aqueduct service	86	86	86
Customers served aqueduct	217,545	222,451	223,608
Inhabitants served by aqueduct	667,094	667,736	665,152
Inhabitants served by sewers	657,628	655,430	652,845
Inhabitants served by purification	643,385	643,673	641,106

Figure 123 Call center quality[GRI 102-43_44]

	2019	2020	2021
Service accessibility rate (free lines with respect to operator presence time)	100%	100%	100%
Number of calls to the call centre	119,803	161,221	166,792
Average telephone waiting time for calls from end customers (sec)	152	177	168
Percentage of successful calls	87.86%	86.68%	88.87%

Figure 124 Quality of the A2A Ciclo Idrico and ASVT service*

data in days	A2A Ciclo Idrico			ASVT		
	2019	2020	2021	2019	2020	2021
Response time to requests for estimate for connection to the aqueduct	9.06	8.49	9.82	3.92	3.91	3.48
Response time to requests for estimate for connection to the sewers	9.72	10.55	9.92	2.27	2.35	1.13

* Time charged to the operator.

District heating and heat management

Figure 125 Transformations made by the heat management service*

	2019	2020	2021
Transformations (no.)	28	37	14
Capacity installed (kW)	17,400	11,015	6,924

* These refer to replacement of methane with methane with a condensing boiler, of methane with district heating, of diesel with methane with a condensing boiler and of diesel with district heating.

Integrated waste cycle

Figure 126 Population served by the urban sanitation activity

	2019	2020	2021
Municipalities served	28	37	14
Population served	17,400	11,015	6,924

Operational sustainability targets 21-30

Stakeholder engagement and materiality analysis

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The AEB Group

Figure 127 Customer Satisfaction of the urban hygiene service carried out by AMSA (average vote)

Service	2019	2020	2021
Urban waste collection	8.31	8.3	8.11
Road and pavement cleaning and washing	7.39	7.15	7.42
Emptying of large road bins	7.46	7.33	7.33
Cleaning of market areas	8.33	8.16	7.49
Cleaning of green areas	7.3	7.12	7.47
Cleaning and collection during and after events	7.98	7.68	7.50
Cumbersome waste collection	8.83	8.89	8.67
Clarity and completeness of the communication on separate collection	8.06	7.97	8.07
Toll Free Number	8.17	8.17	8.42
Amsa counter	- *	7.36	8.00
Website	7.22	7.17	8.50
App Puliamo	- *	7.83	8.75
Recycling	8.5	8.43	8.51
Snow service	7.64	7.32	7.22

* The counter and app satisfaction ratings are not statistically significant due to the low number of respondents

Figure 128 Customer Satisfaction of the urban hygiene service carried out by Aprica (average vote)

	2021
CSI service	75.99
CSI contact channels	78.19
CSI improvement*	73.00

* The Improvement CSI refers to the quality of service provided over the past 2 years, specifically how the service is perceived to have improved/stayed the same/worsened.

NOTE: Starting in 2021, in order to summarize in an operational manner the outcomes of the *Customer Satisfaction* surveys, it has become necessary to build an overall *CSI INDEX*, consisting of: Service CSI, Contact Channel CSI, and Improvement CSI. These indicators are in turn constructed as a weighted average of specific items investigated with the questionnaire and which are selected in agreement with A2A so that any improvement actions which will be diagnosed by the analysis are to all intents and purposes applicable.

Figure 129 Paid services: waste disposal and other specific services for individuals [G4 - EU3]

Customers served	2019	2020	2021
Amsa	5,661	4,370	5,961
Aprica	1,248	1,229	1,438
La.Bi.Co. Due*	331	-	-
Linea Gestioni	633	637	1,394
Gelsia ambiente	-	-	87

* The company La.Bi.Co.Due has been integrated into Aprica as of 2020.

Figure 130 Waste disposal service [G4 - EU3]

Customers served	2019	2020	2021
Municipalities served (no.)	1,000	1,007	1,285
Companies served (no.)	6,406	6,407	8,482

Figure 131 Call centre services

	AMSA			APRICA		
	2019	2020	2021	2019	2020	2021
Number of calls to the call centre	419,383	398,470	368,197	57,618	75,262	136,054
Accessibility of lines and services (time when line is free vs operator presence time)	100%	100%	100%	100%	100%	100%
Average waiting time on the telephone (seconds)	47	39	29	45	64	116
Percentage of successful calls	97%	98%	98%	93%	93%	92%

Operational sustainability targets 21-30

Stakeholder engagement and materiality analysis

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The Acsm Agam Group

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Conciliation management

Figure 132 ADR A2A-Consumer associations conciliation procedures

2021 Dispute issues	Electricity	%	Gas	%	Dual fuel	%	Total demand Ele/gas/dual	%	Water	%
Invoicing	5	38%	20	74%	1	100%	26	63%	3	43%
Market	0	0%	0	0%	0	0%	0	0%	1	14%
Contracts	6	46%	5	19%	0	0%	11	27%	2	29%
Late payment and suspension	1	8%	1	4%	0	0%	2	5%	1	14%
Metering	0	0%	1	4%	0	0%	1	2%	0	0%
Damages	1	8%	0	0%	0	0%	1	2%	0	0%
General total	13	100%	27	100%	1	100%	41	100%	7	100%

2020 Dispute issues*	Electricity	%	Gas	%	Dual fuel	%	Total demand Ele/gas/dual	%	Water	%
Invoicing	5	56%	5	42%	1	50%	11	48%	4	50%
Market	1	11%	0	0%	0	0%	1	4%	0	0%
Contracts	0	0%	1	8%	1	50%	2	9%	0	0%
Late payment and suspension	1	11%	1	8%	0	0%	2	9%	0	0%
Metering	1	11%	4	33%	0	0%	5	22%	4	50%
Connections, works and technical quality	0	0%	1	8%	0	0%	1	4%	0	0%
Damages	1	11%	0	0%	0	0%	1	4%	0	0%
General total	9	100%	12	100%	2	100%	23	100%	8	100%

* The 2020 data has been recalculated due to a clerical error.

2019 Dispute issues*	Electricity	%	Gas	%	Dual fuel	%	Total demand Ele/gas/dual	%	Water	%
Invoicing	14	29%	7	15%	0	0%	21	44%	1	25%
Market	0	0%	2	4%	0	0%	2	4%	0	0%
Contracts	0	0%	1	2%	1	2%	2	4%	0	0%
Late payment and suspension	0	0%	1	2%	0	0%	1	2%	0	0%
Metering	7	15%	14	29%	0	0%	21	44%	3	75%
Connections, works and technical quality	1	2%	0	0%	0	0%	1	2%	0	0%
General total	22	46%	25	52%	1	2%	48	1	4	1

Figure 133 Contributions to the Authorities*

	2019	2020	2021
Energy Authority operating contribution	2,121,570	2,386,123	2,393,712
Ega operating contribution	474,602	481,201	479,822
Agcom operating contribution	42,005.52	52,409.47	65,105.65

* Contributions made referencing the previous year are shown.

Figure 134 Contributions to political parties and trade associations (thousands of euro)

	2019	2020	2021
Politicians and political parties*	0	0	0
Trade associations	1,614	1,676	1,735
Other associations/organizations (promotion and dissemination of sustainability, research and sector/thematic studies)	269	284	442
Total	1,883	1,961	2,177

* The Group does not make any contributions directly or indirectly to any political party, movement, political and trade union organisation and committee, nor to their representatives or candidates, in Italy and abroad, apart from contributions due in accordance with specific regulations.

Figure 135 Details of higher expenses for trade associations (thousands of euro)

thousands of euro	2019	2020	2021
Utilitalia	615	590	620
Confindustrie	497	531	492
Elettricità futura	129	135	134

Relations with suppliers

Figure 136 Number and value of orders by supply type [GRI 204-1]

Type	2019		2020		2021	
	No. orders	Amount (€)	No. orders	Amount (€)	No. orders	Amount (€)
Supplies	2,381	299,853,423	3,355	550,916,448	3,724	500,434,434
Works	1,922	341,424,019	1,641	535,916,303	1,987	732,303,731
Services	4,318	477,256,457	5,486	542,210,382	5,615	810,340,864
Other types	-	-	-	-	282	6,836,577
A2A Group orders	8,621	111,839,354	10,482	1,629,043,132	11,608	2,049,915,606
LGH orders	2,650	114,846,305	2,060	101,910,000	1,488	98,558,390

Figure 137 Geographic breakdown of orders by business unit (%)

	Lombardy	Other Italian Regions	EU	Non EU	Total
Generation and Trading	42.76%	56.69%	0.11%	0.44%	100%
Market	55.41%	44.48%	0.09%	0.02%	100%
Corporate	69.71%	28.93%	0.34%	1.02%	100%
Environment	57.99%	29.11%	10.71%	2.19%	100%
Smart Infrastructures	71.81%	26.91%	0.75%	0.54%	100%

* A2A Smart City merged in Smart infrastructures BU from 2019.

Figure 138 Geographic breakdown of orders [GRI 204-1] (% orders)

	2019	2020	2021
Lombardy	59.6%	66.9%	61.3%
Other Italian Regions	36.5%	30.7%	34.0%
EU	3.4%	1.8%	3.6%
Non EU	0.4%	0.6%	1.1%

Figure 139 Suppliers with at least one A2A Group certification (% orders)

	2019	2020	2021
Total suppliers with at least one certification	2,767	3,018	3,451
of which activated with order	1,092	1,113	1,239
Value of orders issued on total orders	83%	83%	86%

Figure 140 Validated suppliers, by type

	2019	2020	2021
Large business (more than 250 employees)	295	335	316
Medium business (50-250 employees)	770	911	916
Small business (10-50 employees)	1,572	1,796	1,650
Micro business (1-10 employees)	1,382	1,542	1,501
NA	210	299	279
Total	4,229	4,883	4,662

DISPUTE MANAGEMENT

EMPLOYEES

A total of 65 labour disputes were in progress or concluded in 2021 involving employees of A2A Group companies (excluding AMSA and including both the former LGH group and the AEB group), of which 10 concerned the assessment of the illegitimacy of dismissals for just cause or dismissals for justified subjective reason, 14 concerned the assessment of the illegitimate exclusion of the claimant from the business unit disposed of to one of the companies of the A2A Group with the consequent right to the establishment of an employment relationship subordinate to the latter company from the date of disposal of the business unit. In addition, 16 claimants requested for payment of salary differences other than requests for a higher level of classification, 1 claimant applied for a finding that the sale of the business unit was unlawful, with the result that it was reinstated in the transferor company, while 7 claimants applied for a finding that they were entitled to a higher level of classification and order to pay the relevant differences in remuneration. Then there were 2 claimants who took legal action to request compensation for the damage caused by the demotion of which 1 also requested a finding that the measure of secondment ordered against the latter was unlawful. In addition, in 2021, 2 cases were pending concerning the determination of the entitlement to compensation for damages arising from occupational illness or accident. The remaining causes concerned various requests (such as appeals of conservative disciplinary proceedings and appeals against dismissal due to the fact that the compensation period has been exceeded).

With regard to AMSA, there were a total of 85 labour disputes in progress or concluded in 2021, of which 10 concerned the assessment of the illegitimacy of dismissals for just cause or justified subjective reason and 5 concerned the assessment of the illegitimacy of dismissals for exceeding the period of conduct. In addition, 16 claimants challenged the fixed-term contracts and 7 fixed-term workers required the verification of the violation of the preferential right by the employer company in the subsequent permanent recruitments, 10 requested a determination of the right to recognition of the higher classification and an order for payment of the relevant salary differences, 10 a determination of fictitious interposition of labour and determination of the right to the establishment of an employment relationship and 7 a determination of the unlawfulness of the transfer of a business unit. The remaining cases concerned various requests, such as requests for payment of salary differences other than requests for a higher

level of classification and appeals of conservative disciplinary proceedings.

SUPPLIERS

There were 7 labour disputes in progress or concluded in 2021 initiated by workers of contracting firms that worked on contracts awarded by A2A Group companies (excluding AMSA and including the LGH and AEB groups). There were 4 proceedings for compensation for damages resulting from occupational diseases or injuries allegedly contracted during the contract work while 1 claimant took legal action to obtain compensation for various damages.

Moreover, 1 claimant requested ascertainment of the right of establishment of an employment relationship by the client company.

As far as AMSA is concerned, during 2021, 8 workers took legal action so that the contracting company and AMSA - the latter jointly and severally liable pursuant to Art. 29 Legislative Decree 276/2003 and Art. 1676 of the Italian Civil Code in as customer - were sentenced to the payment of the salary differences claimed by the same.

Non-compliance with environmental regulations [GRI 307-1]

During 2021, 22 environmental proceedings were in progress or concluded; of these, 4 proceedings were closed, 5 are new proceedings and 13 were already in progress (8 now relating to the former LGH S.p.A. group companies); these proceedings are related to: (i) allegations of violations of provisions contained in the respective Integrated Environmental Authorizations (A.I.A.), (ii) certain alleged irregularities in waste management and (iii) alleged non-compliance with other legal or regulatory requirements.

With regard to the 4 proceedings, closed in 2021:

- Criminal proceedings for violation of Legislative Decree no. 152/06 by the Milan Public Prosecutor's Office concerned an (at the time of the facts) employee of A2A's "assets" service who had been served, in September 2014, a notice of investigation underway by the municipal police. The facts referred to work carried out in Milan for which the same had presented the SCIA with annexed certification of conformity of the land prepared on the basis of environmental investigations carried out by a geologist appointed by the contractor and certifying the conformity of the land to the standard for industrial use of the site. However, the annexed table showed an exceedance of a potential contamination threshold that was not mentioned in the conclusions of the geologist's report and, consequently, in the statement made.

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Since then, however, the time limit for the closure of the investigation has passed without any action being taken by the Public Prosecutor's Office: more than seven years have passed and the person concerned by the notice left the Group some time ago and never communicated that the initial notice was followed by proceedings against, which have now been archived.

- Criminal proceedings concerned an employee of A2A Ambiente (Brescia Public Prosecutor's Office - Brescia preliminary investigation judge (GIP) for the unauthorized management of special non-hazardous waste) for whom on October 7, 2011 the Brescia GIP ruled that there was no need to proceed due to the fact of not having committed the crime (A2A Ambiente is now only a plaintiff in the trial);
- Criminal proceedings by the Milan Public Prosecutor's Office for an alleged violation found by ARPA at AMSA's "Silla transfer station" and charged to the company's then chief operating officer have been filed (the filing actually dates back to 2016, but we only heard from the defendant last year);
- The proceeding for a hypothesis of "organized activity for the traffic of waste" of the Court of Rome No. 29830/14 against the technical director (at the time of the facts) of the Rovato plant where waste coming from the reclamation of the former Sisas area of Pioltello had been disposed of for a short time and in small part, was defined on November 15, 21 with a sentence of acquittal.

CUSTOMERS [GRI 206-1]

2021 ended with 101 open legal proceedings relating to billing disputes on electricity and gas supplies, incorrect detection of consumption due to malfunctioning of the meters, incorrect configuration of the available power of the electricity

supply, incorrect termination of supply and, more generally, the failure and/or incorrect detection of consumption of electricity, gas and/or water service; of the aforementioned total no. 77 judicial proceedings specifically concern the issue of the repetition of excise duties on electricity of 2010/2011.

A dispute continued in 2021 with a customer of AMSA, A2A Ambiente and Aprica, which is claiming contractual termination for excessive costs incurred.

For the AEB Group, 2021 ended with 1 legal proceeding pending concerning the invoicing of gas supplies and 2 legal proceedings of (former) customers concerning disputes relating to the operation of micro-cogeneration plants installed at their premises.

COMMUNITY [G4 - EU25]

At end 2021, there were 89 cases in which citizens requested compensation, for the most part of fairly small value, for financial damages or damages to property or things, while there were 41 cases seeking compensation for physical damages in respect of personal injuries; these include 1 relating to a fatal accident involving a Group company (an operative vehicle cleaning a cycle path) and a fatal accident involving a Group company (the placement of waste collection containers on the roadside is considered a cause of a road accident).

Finally, three lawsuits are pending regarding alleged violations of property rights.

For the AEB Group, 1 legal proceeding was pending at the end of 2021 between a local authority and a company, involving an AEB company, for a low-value claim involving property damage.

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Group Profile

The Acsm Agam Group includes 11 companies and is divided into 4 Business Units (BUs):

- **Networks BU** includes the companies that deal with:
 - water service and gas distribution for the provinces of Monza, Como and Varese;
 - only gas distribution in the provinces of Lecco and in Veneto;
 - gas and electricity distribution in the province of Sondrio.
- **Environment BU** deals with waste collection activities (in the province of Varese and Como) and waste-to-energy (Como);
- **Sales BU** to which the Group companies operating in the sale of natural gas and electricity refer;
- **Energy and Smart Technologies BU** oversees the activities of energy efficiency, electricity generation, heat management, new innovative and smart city services, public lighting and district heating.

AEVV Farmacie s.r.l., which operates three pharmacies in the city of Sondrio, should also be added to these BUs.

Governance

The Company is listed on the Italian stock exchange in Milan and has adopted, since 2016, the Corporate Governance Code promoted by Borsa Italiana. The company's Corporate Governance structure is based on the traditional organizational model. Currently, all Group companies adopt their own Organization, Management and Control Models in accordance with Italian Legislative Decree 231/2001 (MOG), covering 100% of the Group's employees.

In addition to the control instruments provided for in the Legislative Decree, 231/2001, the Company has adopted a Code of Ethics, which also contains the main elements of its human rights policy. The Group companies are monitored with regards to risks connected with corruption. In accordance with the provisions of the Company's Code of Ethics, the Group does not allow active or passive corruption or collusion of any nature or form.

In 2021, there were no cases of corruption and no cases of corruption are pending.

Moreover, the company policy does not provide for the payment of contributions of any kind to parties or politicians.

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Economic value generated and distributed

Figure 141 Statement for distributing the gross global added value and Economic value generated and distributed (millions of euro)

	2020	2021
Remuneration of personnel	54.52	55.45
Remuneration of risk capital	16.41	16.87
Remuneration of borrowed capital	0.93	0.87
Transfers to the government	10.83	17.58
Transfers to the local community	2.47	5.62
COMPANY REMUNERATION	310.22	315.43
GROSS GLOBAL VALUE ADDED	395.38	411.83
Economic value generated	397	485
Economic value distributed	333	416

Figure 142 Investments - Percentage of Total (%)

	2020	2021
Group infrastructure investments (M€)	73.2	79.9
Networks BU	46%	48%
Energy BU	23%	27%
Environment BU	9%	11%
Sales BU	3%	1%
Corporate	19%	13%

Efficient infrastructure management

Figure 143 Installed capacity

INSTALLED CAPACITY	2020	2021
Electricity (MW _e)	48	31
Thermal (MW _t)	250	251

Figure 144 Energy production

ENERGY PRODUCTION	2020	2021
Electricity (GWh _e)	78	81
Thermal (GWh _t)	286	318

Figure 145 Natural gas distribution

Distribution of natural gas	2020	2021
Natural gas distributed (Mm ³)	591	623
Gas network extension (km)	3,277	3,286

Figure 146 Electricity Distribution

Electricity distribution	2020	2021
Electricity distributed (GWh)	153	156
Electricity losses in the grid (GWh)	4	4
Extension of the electricity distribution service (km)	570	575
- of which underground cable (km)	413	419

Figure 147 Heating energy released to the network

Thermal energy released to the network	2020	2021
Heating energy distributed (GWh)	195	220
Thermal energy losses (GWht)	32	34

Figure 148 Integrated water service

Integrated water service	2020	2021
Wells (no.)	97	96
Springs (no.)	189	169
Drinking water plants (no.)	20	20
Total network length (km)	1,695	1,703
Water delivered to the user and booked (Mm ³)	29	28
Water extracted (Mm ³)	43	42
Network losses and water not booked (Mm ³)	15	14

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Figure 149 Municipal waste collected

Urban waste collected	2020		2021	
	Quantity collected (t)	% differentiated collection	Quantity collected (t)	% differentiated collection
Varese	38,396	71%	41,015	70%
Province of Varese	37,381	81%	41,904	82%
Other municipalities in the province of Varese	8,548	-	7,435	-
Province of Como	5,647	74%	6,041	77%
Other municipalities in the province of Como	17,366	-	21,612	-
Total	107,339	-	118,007	-

Environmental responsibility

Figure 150 Water withdrawal* (thousands of m³)

Source of withdrawal	2020	2021
Surface water	20,773	20,966
- of which in water stressed areas	0	0
Groundwater	20,311	19,911
- of which in water stressed areas	0	0
Third-party water	1,098	1,115
- of which in water stressed areas	0	0
Total volume of water withdrawn	42,182	41,993

* Salt/sea water is defined as marine or salt water with a concentration of dissolved solids (measured as sodium chloride) >1,000 mg/l.

Figure 151 Water Discharge* (thousands of m³)

Destination of discharges	2020	2021
Surface water	20	18
- of which in water stressed areas	0	0
Third-party water	784	879
- of which in water stressed areas	0	0
Total volume of water discharged	804	897
Public water supplied to water service users (Mm3)	29	28

* Salt/sea water is defined as marine or salt water with a concentration of dissolved solids (measured as sodium chloride) >1,000 mg/l.

Figure 152 Resources used

Resources used	2020	2021
Non-renewable fuels (GJ)	2,034,244	2,135,595
Electricity (GJ)	153	151
Chemical products and materials used (t)	7,597	2,509

Figure 153 Emission of greenhouse gases (t)

	2020	2021
Direct emissions (Scope 1)	163,137	171,424
Indirect emissions (Scope 2) - Location Based	11,794	11,666
Indirect emissions (Scope 2) - Market based	19,798	19,188

Figure 154 Pollutant emissions

	2020	2021
Nitrogen oxides (NO _x) (t)	76	82
Sulphur oxides (SO _x) (t)	0.4	1.0
Powders (t)	0.2	0.4
CO (t)	28	29
Fluorinated gases (kg)	27	42

Figure 155 Total waste generated

	2020	2021
Non-hazardous waste (t)	19,282	19,487
Hazardous waste (t)	2,828	2,581
Total (t)	22,110	22,068
Sent for recovery (% of total)	89%	90%

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Responsible management of people

Figure 156 Breakdown of employees and collaborators by gender

No. people	2020			2021		
	Men	Women	Total	Men	Women	Total
Employees						
Permanent	645	228	873	657	232	889
Temporary Contract	4	1	5	1	7	8
Total	649	229	878	658	239	897
of which with part-time contract	4	42	46	3	44	47
Collaborators	n.a.	n.a.	42	n.a.	n.a.	42

Figure 157 Number of hires, outgoing and turnover rate

New hires, outgoing, Turnover	2020	2021
Hires	52	82
Outgoing	76	63
Turnover*	9%	7%

* The turnover rate was calculated according to the following formula: (departures) / (employees) at December 31.

Figure 158 Percentage of workers represented in formal health and safety committees

	2020	2021
%	100%	100%

Figure 159 Occupational accidents

	2020	2021
Decease	0	0
Accidents at work	27	18
of which with severe consequences	2	0
Rate of recordable occupational accidents	18.59	12.31
Rate of severe accidents at work	1.38	0

Figure 160 Breakdown of employees by professional category, gender and age group

ITALY	2020				Total	2021				Total
	Managers	Middle Managers	White-collar workers	Blue-collar workers		Managers	Middle Managers	White-collar workers	Blue-collar workers	
Men	17	39	218	375	649	17	40	226	375	658
Women	1	17	210	1	229	1	18	219	1	239
<30	0	0	17	21	38	0	0	34	29	63
30-50	8	33	263	180	484	9	31	269	170	479
>50	10	23	148	175	356	9	27	142	177	355
Total	18	56	428	376	878	18	58	445	376	897

Figure 161 Company population is covered by collective bargaining

	2020	2021
%	100%	100%

Figure 162 Training hours provided by gender

	2020		2021	
	Number of hours	Average annual hours of training per employee	Number of hours	Average annual hours of training per employee
Men	7,484	12	15,687	24
Women	3,302	14	7,308	31

Figure 163 Hours of training broken down by professional category

	2020		2021	
	Number of hours	Average annual hours of training per employee ⁴	Number of hours	Average annual hours of training per employee ⁴
Managers	518	29	1,023	57
Middle Managers	2,136	38	3,887	67
White-collar workers	6,234	15	13,235	30
Blue-collar workers	1,898	5	4,851	13

³ The average number of hours per capita was calculated on the total number of employees in the Group's workforce.

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Relations with shareholders

Figure 164 Customer relations

Number of PDRs (redelivery points) and municipalities served by the gas distribution service	2020	2021
PDR	313,458	312,447
Municipalities served	88	88
Number of users and municipalities served by the electricity distribution service	2020	2021
POD	25,779	25,934
Municipalities served	4	4
Number of users and municipalities served by the municipal sanitation service	2020	2021
Users	196,500	201,819
Municipalities served	42	52
Municipalities and customers served by the water service	2020	2021
Municipalities served by aqueduct service	37	37
Customers served aqueduct	85,214	85,515
Inhabitants served by aqueduct	314,775	310,283
Users connected to the district heating service	2020	2021
Users	633	637
Contracts by type of gas sales service provision	2020	2021
Protected market	121,481	110,125
Free market	125,179	128,015
Total	246,660	238,140
Volumes sold (Mm ³)	431	436
Contracts by type of electricity sales service provision	2020	2021
Protected market	14,814	13,423
Free market	69,988	74,877
Total	84,802	83,300
Volumes sold (GWh)	369	381

Supply Chain

The Group adopts a register of suppliers (divided into product categories) whose qualification criteria do not constitute barriers to entry. Each selection procedure must be carried out in accordance with the widest possible conditions of competition. Supplier performance, in addition to ensuring the necessary quality standards, must go hand in hand with a commitment to adopt best practices in terms of human rights and working conditions, occupational health and safety, and environmental responsibility. Therefore, the Group has developed specific clauses so that the goods and services it offers are produced in accordance with minimum social standards regarding human rights and working conditions along the supply chain. Almost all orders are from Italian suppliers, of which over 76% are based in Lombardy. In addition, 789 suppliers were activated with at least one order as at December 31, 2021, all in the Group's register of suppliers.

Figure 165 Number of Group orders by type

Orders	2020		2021	
	No.	€	No.	€
Supplies	1,068	29,088,825	760	43,220,601
Works	152	40,072,364	102	25,635,944
Services	1,354	63,433,462	835	102,709,413
Sponsorships	75	444,537	103	572,070
Other	-	-	-	-
Total	2,649	133,039,188	1,800	172,138,028

Disputes

No disputes have arisen with Group customers (with the exception of those relating to debt collection in which the company is a claimant), either for non-compliance linked to impacts on consumer health and safety or for supply services and related marketing activities.

There are no legal actions for recourse due to sanctions by the AGCM for causes related to anti-competitive conduct or unfair market practices.

During the year 2021, Acsm Agam Group Companies were not involved in disputes concerning non-compliance incidents involving privacy violations or loss of customer data.

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The AEB Group's *performance* for the year 2021 has been fully integrated into the scope of A2A's Non-Financial Declaration.

For completeness and comparability, the following is an excerpt from 2020 published last year.

Group Profile

The AEB Group represents an industrial company rooted in the social and economic fabric of Brianza and has been operating since 1910 in the public utility services sector. The Group consists of AEB SpA (the parent company) and the four companies involved in the main *businesses*:

- **Gelsia** deals with the sale of methane gas and electricity, the construction of cogeneration plants, district heating networks, building heat management and photovoltaic systems;
- **Retipiù**, a company that distributes methane gas and electricity, and is active in the public lighting sector and smart cities services;
- **Gelsia Ambiente** is the Group company that manages environmental hygiene services.

On November 1, 2020, AEB A2A entered the share capital of AEB with a 34% share against a contribution in terms of gas distribution assets and the entire shareholding in the company **A2A to Public Lighting**, which serves more than 2.2 million inhabitants on the national territory.

Governance

The Group has a Code of Ethics that aims to ensure that the activities of each Group company are inspired by the principles of fairness, transparency, diligence, honesty, loyalty, sustainability, efficiency and legality and presupposes compliance with the applicable legal and administrative provisions in force and observance of company regulations and procedures. The purpose of the Code is therefore to provide general ethical-behavioural guidelines to be complied with in the performance of activities and to help prevent the commission of offences connected with the crimes referred to in Legislative Decree no. 231/01 (hereinafter also referred to as the "Decree").

In 2020, there were no cases of corruption and no cases of corruption are pending. Moreover, the company policy does not provide for the payment of contributions of any kind to parties or politicians.

Economic value generated and distributed

Figure 166 Investments by business unit

	2020
Group infrastructure investments (M€)	32.2
Corporate BU	4.3%
Market BU	24.5%
Environment BU	14.6%
Smart Infrastructures BU	56.6%
Total	100.0%

Figure 167 Installed capacity

	2020
Electricity (MW _e)	10
Thermal (MW _t)	150

Figure 168 Energy production

	2020
Electricity (GWh _e)	14
Thermal (GWh _t)	64

Figure 169 Natural gas distribution

	2020
Natural gas distributed (Mm ³)	346
Gas distribution network extension (km)	2,849

Figure 170 Electricity distribution

	2020
Electricity distributed (GWh)	130,794
Electricity losses in the grid (GWh)	4,709
Extension of the electricity distribution service (km)	252

Figure 171 Heating energy released to the network

	2020
Heating energy distributed (GWh)	68
District heating network extension* (km)	16

* The network is intended as the sum of heat transmission, distribution and supply pipes.

Figure 172 Municipal waste collected

	2020	
Gelsia Ambiente	Tonnes of waste	% differentiated collection
Province of Monza and Brianza	184,111	80.6%

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Environmental responsibility

Figure 173 Resources used

Resources used	2020
Fuel (TJ)	340
Automotive fuels (TJ)	52
Electricity (GWh)	5
Chemical products and materials used (t)	50

Figure 174 Emission of greenhouse gases (t)

	2020
Direct emissions (Scope 1)	20,412
Indirect Emissions (Scope 2) - Location Based*	1,310
Indirect emissions (Scope 2) - Market based**	2,145

* See notes on page 35.

** See notes on page 35.

Figure 175 Special waste produced (t)

	2020
Non-hazardous waste	164
Hazardous waste	41
Total	205

Responsible management of people

Figure 176 Breakdown of employees and collaborators by gender

	2020		
	Men	Women	Total
Employees			
Permanent	497	126	614
Temporary Contract	8	1	9
Total	505	127	623
of which with part-time contract	3	30	33
Workers with non-standard contracts* (temporary/ interns/collaborators)	48	13	61

Figure 177 Number of hires, outgoing and turnover rate

	2020
Hires	30
Outgoing	72
Turnover	11%

Figure 178 Injuries to employees by gender and days lost

	2020			
	AEB	GELSIA	GELSIA AMBIENTE	RETI più
Number of deaths	0	0	0	0
No. accidents at work	1	0	24	1
Men			24	1
Women	1	0	0	0
Accidents with severe consequences	0	0	0	0
Frequency index FI	8.1	0	5.38	5.38
Severity index SI	0.28	0	0.04	0.04
Incidence index II	0	0	2.52	7.58
Commuting accidents	0	0	1	1

Figure 179 Breakdown of employees by professional category and gender

	2020				
No. people	Managers	Middle Managers	White-collar workers	Blue-collar workers	Total
Men	6	26	99	366	497
Women	1	7	112	6	126
Total	7	33	211	372	623

Figure 180 Company population is covered by collective bargaining

	2020
%	100%

Figure 181 Training hours provided by gender

	No. employees trained	Participations	Number of hours	Average annual hours of training per employee
2020				
Men	434	903	5,089	10.08
Women	83	194	1,041	8.20

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Figure 182 Hours of training broken down by professional category

2020	No. employees trained	Participations	Number of hours	Average annual hours of training per employee ⁴
Managers	6	23	229.5	32.8
Middle Managers	33	84	323.5	9.8
White-collar workers	121	288	1,588	7.5
Blue-collar workers	357	702	3,989	10.5

Relations with shareholders

Figure 183 Customer relations

Number of PDRs (redelivery points) and municipalities served by the gas distribution service	2020
PDR	285,995
Municipalities served	97
Number of users and municipalities served by the electricity distribution service	
POD	26,048
Municipalities served	1
Number of users and municipalities served by the municipal sanitation service	
Users	414,229
Municipalities served	26
Users connected to the district heating service	
Users	530
Public lighting (net of A2A Public Lighting points)	
Light points	7,059
Gas sales service (number of contracts)	
Protected market	73,910
Free market	63,805
Total	137,715
Total gas sales (Mm³)	260
Electricity sales service (number of contracts)	
Protected market	8,409
Free market	55,509
Total	63,918
Total sales of electricity (GWh)	488

⁴ The average number of hours per capita was calculated on the total number of employees in the Group's workforce.

Supply Chain

The Group adopts a register of suppliers (divided into product categories) whose qualification criteria do not constitute barriers to entry. There are no evaluations of suppliers, who intend to qualify, on environmental or social issues. The geographical origin of orders could not be identified. In addition, 786 suppliers were activated with at least one order as at December 31, 2020, all in the Group's register of suppliers.

Figure 184 Number of Group orders by type

	2020	
Orders	No.	€
Supplies	597	14,865,823
Works	137	5,267,474
Services	1,335	29,864,027
Total	2,069	49,997,324

Disputes

At the end of 2020, Gelsia Ambiente S.r.l., in relation to the management of an ecological platform owned by the municipality, received a warning from ATO MB for discharging first rain water into the public sewerage system in violation of the requirements contained in the single authorization. Gelsia Ambiente requested a hearing from the ATO. The Authority granted the hearing, which was held on 12/21/2020. Developments are awaited. The company had already scheduled the necessary work but was awaiting permission from the owner.

In February 2017, Gelsia S.r.l. filed an appeal with the Lazio Regional Administrative Court against a penalty imposed on it by the AGCM for alleged unfair commercial practice. The lawsuit is still pending, pending the scheduling of a hearing for arguments. In the meantime, the company paid the penalty subject to repetition.

At December 31, 2020, there were six disputes with employees, including five at Gelsia Ambiente (four judicial and one out-of-court) and one at RetiPiù S.r.l. (out-of-court).

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We would like to thank all our colleagues of A2A who worked on the preparation of this Report.

Graphic design and layout:

SERVICEPLAN
MERCURIO GP

Printing:

AGEMA S.p.A.

Milan, March 2022

