

An aerial photograph showing a paved road with a dirt shoulder, winding through a dense green forest. The road curves along the edge of a calm lake on the left. Several cars are visible on the road. The overall scene is peaceful and natural.

SASA

SUSTAINABILITY
REPORT
2022

The earthquake disaster that occurred in our country, affecting 11 provinces including İskenderun and Adana where our facilities are located, has become one of the deepest wounds in our history. While trying to heal the traces of the destruction that occurred, we extend our condolences to all the living beings who lost their lives, and offer our prayers and condolences to the families of the citizens who have lost their loved ones, as well as our animal friends.

As SASA, we are aware that the consequences of this devastating disaster can be overcome with unity and solidarity. Since the first day of the destruction, we aim to support our citizens with all our efforts to build a sustainable environment and reach hopeful tomorrows. We are working with all our strength towards this goal.

ABOUT THE REPORT

GRI 2-1, GRI 2-2, GRI 2-3

In this 3rd edition of our Sustainability Report, we, as SASA, present and discuss our track record and performance during year 2022 in terms of our business model, sustainable strategy and goals, particularly focusing on the environmental, social and corporate governance aspects.

The contents of this report and the consolidated financial statements cover the SASA's production plant located in Adana city, raw material warehouse and shipping center in Iskenderun for the activity period of 12-months from January 1st, 2022 to December 31st, 2022.

This report discloses our contributions to the 2030 Agenda and Sustainable Development Goals ratified by United Nations in 2015 in full conformity with the GRI Sustainability Reporting Standards. Our Report is published in Turkish and English versions.

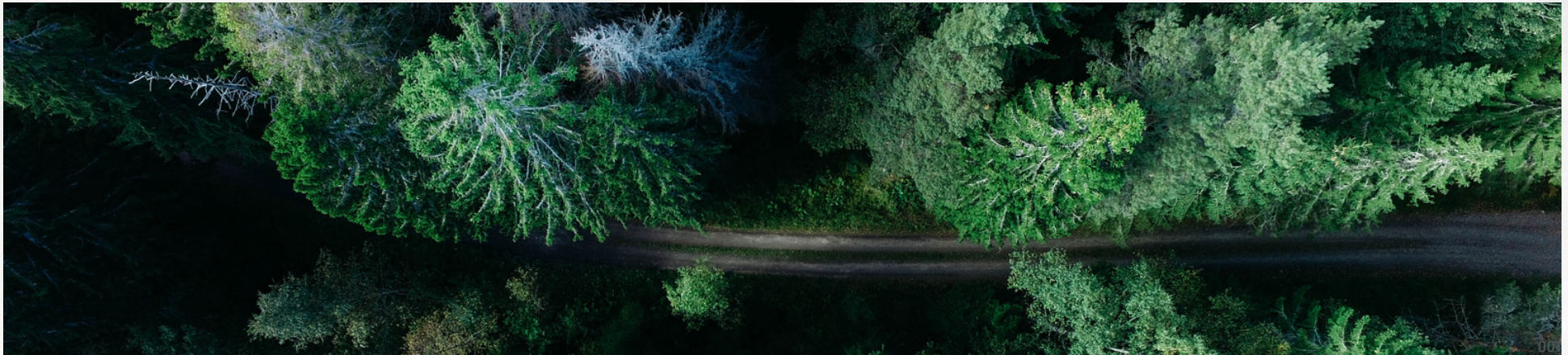
As a result of the materiality analysis, contributed also by our stakeholders, we identified 18 priority issues in total, including 6 very high priority and 12 high priority topics. We categorized these topics under environment, social responsibility and governance headings, under which we explained our activities comprehensively.

We have improved our sustainability strategies in parallel with global industrial trends, activities of SASA, as well as the feedbacks we received from our stakeholders after publication of our sustainability reports in 2020 and 2021. With this 2022 SASA Sustainability Report, we convey all our stakeholders our short- and long-term goals we set in line with our updated sustainability strategy.

In this report, we provide comprehensive risks and opportunity analyses regarding the climate-related financial disclosure, which is also specifically and more comprehensively discussed in our TFCF (Task Force on Climate-Related Financial Disclosure) Report for PTA Facility published in 2022.

We are currently making arrangements for securing the third-party independent certification for our report.

We are committed to take all our actions, led by SASA Sustainability Committee, so that they contribute to and further our sustainability goals.



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COMPANY
OVERVIEW

MESSAGE FROM THE CHAIRMAN OF THE BOARD

Dear SASA Stakeholders,

First of all, I wish God's mercy to all our citizens who lost their lives in our country where the earthquake disaster took place, a speedy recovery to our wounded and patience to their families.

I want it to be known that I have full faith that we will overcome the financial and emotional damages that have occurred in this area as soon as possible thanks to our culture of cooperation and solidarity that has always existed in this country.

As the Erdemoğlu Holding family, we quickly distributed carpets, blankets, food and beverages in addition to cash donations, in order to be a balm for the wounds of those who suffered from the earthquake. Also, we immediately directed our engineers and expert employees to search and rescue operations in the wreckage area, accompanied by our construction machinery and equipment in our factories. As the Erdemoğlu Holding family, we will always continue to stand by and at the disposal of our beloved nation with all our financial and emotional means. We wish that such disasters will not happen again, and we continue to work with all our strength to heal the wounds by offering our best support to our society, which was affected by the destruction. We aim to be even more beneficial to our society with the investments, projects and aids we are making or will be making as part of our social sustainability efforts.

As SASA, we determine our environmental, social and corporate sustainability targets within the scope of the strategies we have created as a priority within the framework of the United Nations Sustainable Development Goals.

As in previous years, in 2022, we prioritized stable, inclusive and sustainable economic growth for all, full and productive employment and decent job opportunities, promoting inclusive and sustainable industrialization and innovations, designing consumption and production models with circular economy, reducing climate change and its effects. We integrated our goals, which we have set in many subjects, such as gender equality, equal representation on the Board of Directors, social responsibility projects, cooperation studies, supplier and employee safety, green procurement practices, circular economy practices, and carbon reduction studies, into our company policies. We started our cooperation with the United Nations Global Compact (UNGC) in 2022 in order to strengthen our strategies and align them with international standards. We published our Corporate Governance Approach Policy, which we prepared with a transparent, responsible and trust-oriented management approach.

In 2022, while the effects of the pandemic began to decrease on a global scale, there were significant changes in the supply chain as a result of the economic, social and political fluctuations that emerged with the occupation of Ukraine by Russia.

As a company, with the awareness that supply chain management is the most important link in environmental, social and economic sustainability, we created the position of Supply Chain Deputy General Manager in 2022 within our organizational structure. With this new organization, we aim to improve the business performance of our company, which exports to many countries.

In the face of negative developments in our sector in 2022 due to increasing recession and inflation concerns, we, as SASA, managed to adapt to changing conditions thanks to the sustainable competitive methods that our strong and dynamic production and management teams put into practice. We strengthened our position in the sector with new customers and new markets through our R&D and P&D studies, along with our sustainable customer relations approach.



MESSAGE FROM THE CHAIRMAN OF THE BOARD

ISASA maintained its sales amount of 1.23 million tons in 2021 and realized sales of 1.18 million tons in 2022, and increased its turnover from 14.6 billion TL to 31.1 billion TL, increasing by 113% compared to the previous year. The 2021 EBITDA figure, which was 2.79 billion TL, reached 5.97 billion TL in 2022 with an increase of 114%. SASA, the largest polyester producer in the region from India to America, with a production capacity of 1.4 million tons/year and 4.750 employees, is advancing with strong and confident steps towards its target of becoming a desired petrochemical plant. In this context, 4 million m2 of land was purchased from the public in the Adana Yumurtalık district in 2022, and studies for the purchase of privately owned lands were also started in order to reach the targeted investment area.

The price of SASA stock in the BIST 30 Index has increased 73 times in USD terms in the 8-year period from the day it was incorporated to Erdemoğlu Holding until the end of 2022.

Growing rapidly, SASA continues to use its profits increasing every year in new investments and shares it with all our shareholders who stand by our Company in its growth journey.

As SASA, we are competing with all our strength to reduce the effects of global climate change in order to ensure that our economic growth is sustainable. In accordance with the Paris Agreement and the United Nations Sustainability Goals, we determine carbon reduction strategies and create our sustainability roadmap accordingly.

Feasibility studies are carried out for the design of our new investments so that the potential carbon emissions are kept to a minimum, and the risks and opportunities that may arise from the ETS (Emission Trading System) and CBAM (Border Carbon Regulation Mechanism) are evaluated within the scope of Turkey and EU strategies in order for our company to be financially prepared for the effects of climate change and all of the preparatory studies are carried out with various scenarios.

In support of the Sustainability Committee Working Groups, which carry out our environmental, social and corporate sustainability activities, we established our Climate Change Working Group in 2022 under our Early Detection of Risk Committee. For our ongoing PTA investment, we published our TCFD (The Task Force on Climate-related Financial Disclosures) Report in 2022 on our website for all our investors and stakeholders in line with our transparency principle. In this report, in which the physical and transition risks and opportunities arising from climate change are discussed and the financial effects are evaluated in the transition to a low-carbon economy; We focused on climate-related corporate governance, strategy, risk management, metric and target components. In addition, we carried out our CDP (Carbon Disclosure Project) Climate Change and Water Safety Reports in 2022 and shared them transparently with our investors and all our stakeholders.

In addition to the energy efficiency projects we carry out in line with our sustainable development goals; Thanks to our new investments equipped with advanced technologies and

environmentally friendly processes, we continue to realize our production with the awareness of effective use of natural resources, our renewable energy investments and our research on this subject.

With the responsibility of leaving a green and clean world to future generations, our investment in Solar Power Plants (SPP) with a installed capacity of 16.4 MWdc on the roofs of our buildings in the Adana city center has been put into operation.

We attach importance to the protection of biodiversity while carrying out our activities and realizing our new investments. In 2022, in cooperation with the Adana Provincial Directorate of Forestry, "SASA Memorial Forest" saplings were planted on a total of 500 hectares of land, 200 hectares in Adana Aladağ District and 300 hectares in Osmaniye Kadirli district, together with SASA Employees and Forestry Enterprise employees for our forests damaged by fire. With this project, in which we planted 600,000 saplings, we tried to support the protection of biodiversity and we plan to continue such projects in the future. We are expanding the biodiversity report we prepared for our PTA investment in 2022 to cover our existing and other new investments.

We wish 2023 to be a year full of health and happiness for humanity, where all our wounds are healed, our pains are left behind; On behalf of our Board of Directors, I would like to thank all our stakeholders who supported us on this long and difficult journey.

İbrahim Erdemoğlu
Chairman of SASA

GENERAL MANAGER'S MESSAGE



Dear Stakeholders,

As SASA, we deeply feel the sadness of the earthquake disaster that took place in our country on February 6, 2023, and we hope that the pain we experience as a nation will ease over time and that such disasters will not happen again.

While the effects of the pandemic gradually decreased in 2022, on the other hand, economic, social and political fluctuations occurred all over the world with the occupation of Ukraine by Russia.

While the world was trying to cope with serious challenges in the face of these fluctuations, we, as SASA, successfully managed this process and continued our sustainable growth.

While ensuring sustainable growth, we are based on the United Nations Sustainable Development Goals and the 10 principles of the Global Compact (UNGC), which we support in 2022. We continue to develop our sustainability strategies together with our employees, customers, shareholders and all stakeholders, with the work we are doing within the scope of the global climate movement. We are pleased to share with you our sustainability report, which was prepared on a full scale and in accordance with the GRI standard, in which we transparently declare our social, environmental and corporate governance activities that we carried out in 2022.

In our Sustainability Report, using the Key Performance Indicators (KPIs) verified by the independent auditor institution, we evaluate the positive and negative trends of the results of our activities and take remedial actions; We are improving our work to have a positive social, environmental and economic impact. We follow national and international standards in all our activities in line with the needs and expectations of our stakeholders.

We ensure the integration of sustainability into all business processes through our committees under our Board of Directors. Environmental Sustainability, Sustainable Products and Chemicals, Social Sustainability and Corporate Governance Working Groups affiliated to the Sustainability Committee within our company continued to carry out their activities in line with the company strategy and objectives. The Climate Change Working Group formed under our Early Detection of Risk Committee in 2022, in coordination with the Sustainability Committee working groups, carried out studies on carbon emission reduction stemming from our activities, analysis of risks and opportunities related to climate change, for the transition to a low carbon economy. All of our working groups mentioned have a multidisciplinary structure with participating members from many departments.

We conduct scenario studies on ETS (Emission Trading System) and CBAM (Border Carbon Regulation Mechanism) for both our existing facilities and new investments, and we integrate these scenarios into our carbon roadmap projects. In line with these studies, we aim to strongly adapt to the low carbon economy with our new investments that take energy efficiency into account and use the best available techniques, advanced technologies and environmentally friendly processes.

GENERAL MANAGER'S MESSAGE

In line with our strategy of adapting to the Global Climate Action, we have transparently presented the environmental impacts of our activities to all our stakeholders with the CDP (Carbon Disclosure Project) Climate Change and Water Safety Reports in 2022. We also published our SASA PTA Production Facility TCFD (Task Force on Climate Related Financial Disclosures) Report in 2022; In 2023, we aim to publish our TCFD Report covering all our facilities. In order to support our work on CDP and TCFD, we received our ISO -1 and ISO 14046 verification declaration certificates for our carbon emissions and water footprint in 2022.

In order to evaluate our impacts on biodiversity, we are expanding the PTA Biodiversity Report, which was prepared for our PTA facility in 2022, to cover all our operating facilities.

We handle environmental, social and economic impacts at the senior management level throughout our entire supply chain through the position of Supply Chain Assistant General Manager, which was established within our company in 2022. We involve our stakeholders in many of our activities in order to extend our sustainability perspective to our entire value chain, and we create green procurement implementation plans in line with our Green Procurement Policy.

Within the scope of the sustainable product management approach, we create a strong technological infrastructure in our facilities and continuously improve our processes and products together with our R&D and P&D teams. We closely follow the regulations both in Turkey and around the world for the outstanding product portfolio we offer to our customers. We conduct a transparent communication process with our customers by sharing the safety data sheets, content and analysis certificates of our products with our stakeholders. Within the scope of sustainable product management studies, we completed our LCA (Life Cycle Assessment) studies for all our product groups in 2022 and included comparative LCA studies among our targets.

With the awareness of the changes on our planet, we adopt a business model that takes environmental and social factors into account, rather than just pursuing profit. We produce environmentally friendly products, increase our energy efficiency, invest in renewable energy, evaluate our impacts with biodiversity reports, and improve our waste management. On the social side, we respect human rights throughout our supply chain, develop social projects to benefit society, cooperate and consider the needs of our employees.

We also have a transparent, responsible and trust-oriented management approach in corporate governance. We demonstrate this understanding with the Corporate Governance Approach Policy we have published. In addition, we aim to increase not only our own performance, but also the performance of the whole sector, by adopting a leading role in our sector with the works we have done to achieve our sustainable development goals.

As SASA, we work for a planet where not only today but also future generations can live. We fulfill our environmental, social and economic responsibilities with the sustainable business model we have adopted and we always continue to work for a better future.

Dr. Mustafa Kemal ÖZ
SASA Board Member, General Manager

ABOUT THE COMPANY

SASA is a world-leading producer in polyester, fiber, filament yarn, polyester-based polymers, specialty polymers and semi-products.

Driven by the leadership position in the industry, blending its robust technical legacy and innovation culture with the high production capacity, SASA successfully manages entire process from design through production up to distribution.

Entering the polyester production in 1966, SASA constantly facilitated its growth thanks to its investments uninterrupted ever since its establishment. To ensure continued leadership in polyester industry and further reinforce its position, SASA established a partnership, in the form of Joint Venture, with the world chemical giant DuPont in 2000, renaming as DupontSA.

Once Sabancı Holding acquired the Dupont shares in 2004, renaming the company as ADVANSA. And the name of organization of the group in Turkey leg became ADVANSA SASA in 2005. In 2011, Sabancı Holding acquired the entire shares of ADVANSA BV, restoring the name of the company as SASA in September, 2011.

When ERDEMOĞLU Holding acquired the Sabancı Holding shares on 30 April 2015, the partnership composition is shaped as 51% owned by ERDEMOĞLU Holding, and 49% available for public offering.

And with the obligatory share acquisition concluded on August 2015, ERDEMOĞLU Holding A.Ş. increased its share ratio to 84.80% in SASA Polyester Sanayi A.Ş.

Equipped with Nobel, ICI and Dupont technologies, SASA has a robust and solid technical fabric thanks to its high-capacity pioneering production facilities, R&D Center established in 2002, as well as over 4,300 qualified personnel.

On 30/09/2019, out of the 51% the private shares of SASA Polyester Sanayi A.Ş. [SASA], with a nominal capital of TRY 830,000,000, where Erdemoğlu Holding A.Ş. owns 84.80% of the total shares; %14.50 of the total capital corresponding to 120,350,000 shares were sold to Merinos Halı San. Ve Tic. A.Ş. a subsidiary of Erdemoğlu Holding A.Ş., with 7.50% corresponding to 62,250,000 to Dinarsu İmalat ve Ticaret T.A.Ş., a subsidiary of Erdemoğlu, for a price TRY 7.20 per share. After said acquisitions, several acquisitions were also made on July 2021, shaping the current share composition of our company.

SASA has a headquarters on an area of 2,181,000 m² containing its integrated production facilities in Adana, and a 55,625 m² in-house raw material storage facilities in Iskenderun as well as liaison offices in Istanbul and Ankara.

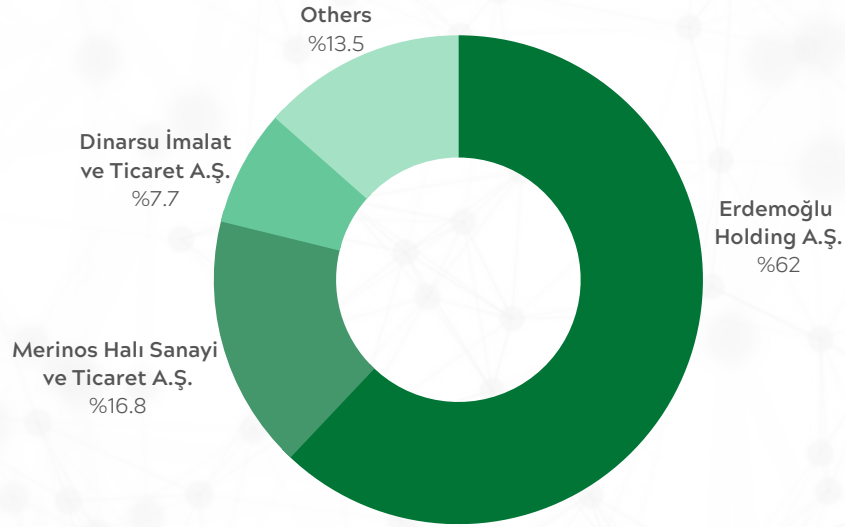


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SASA IN NUMBERS



Our Shareholder Structure



We are ranked as **20th** largest among **Turkey's top 500 companies** announced by the Istanbul Chamber of Industry in 2021.

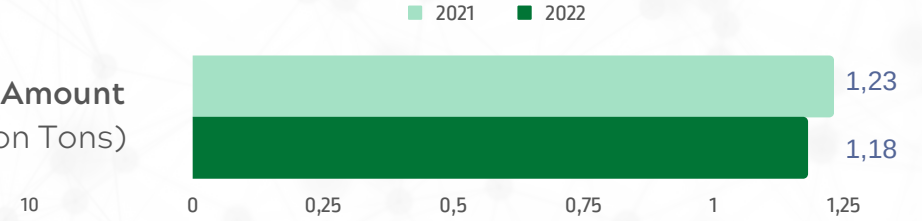
Nearly 5000 people work at SASA.

With its annual capacity of **1.4 million tons**, SASA produces **2%** of the polyester produced in the world.

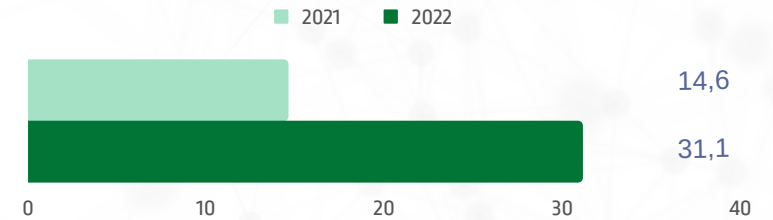


Our Financial Indicators

Sales Amount (Million Tons)

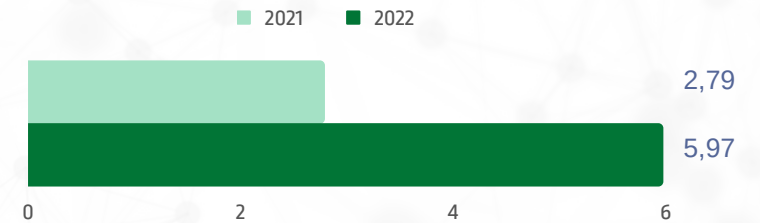


Turnover (Billion TL)



290% increase in turnover

EBIDTA (Billion TL)



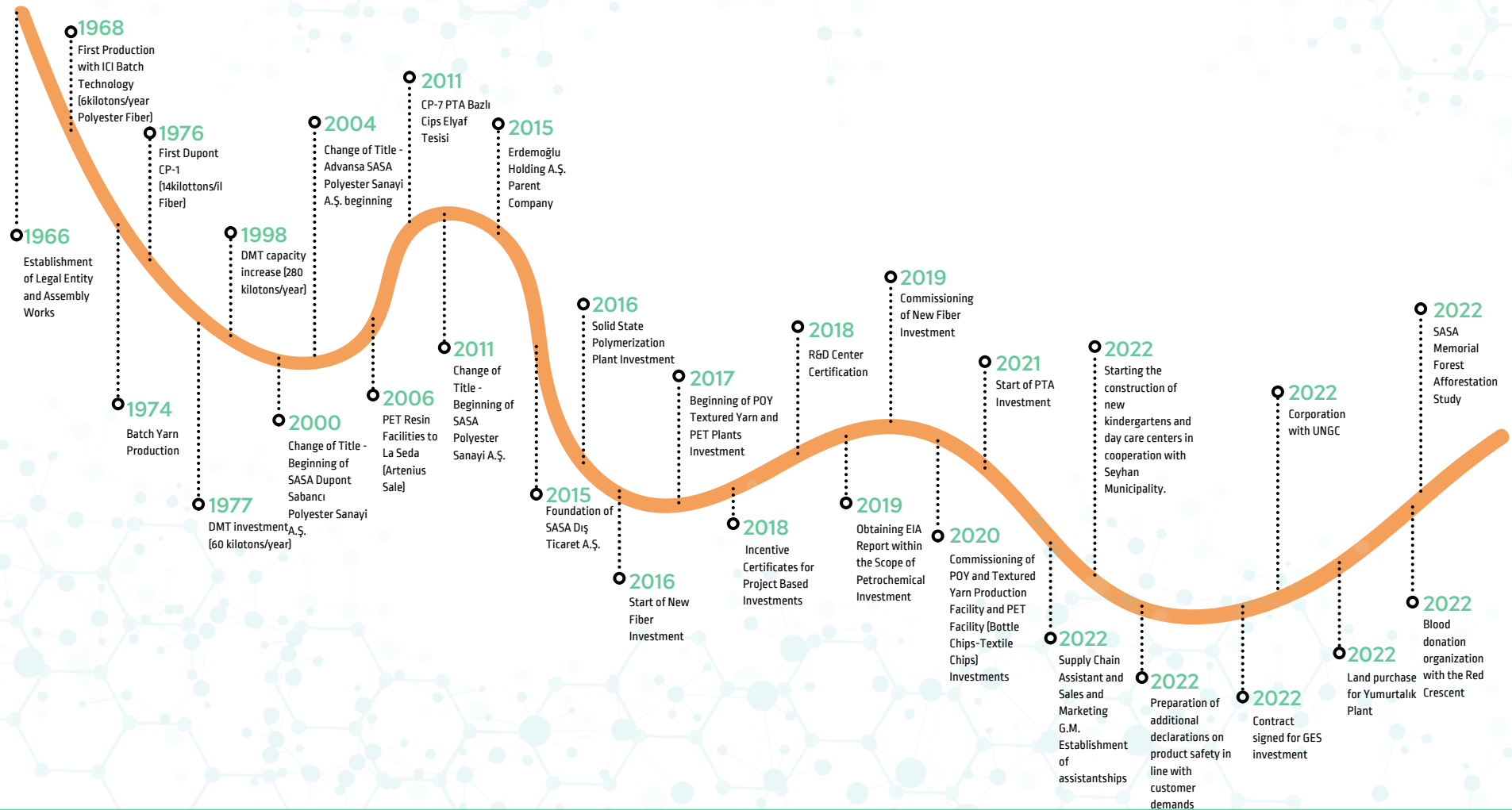
114% increase in EBIDTA*

*EBIDTA: Earnings Before Interest, Tax, Depreciation and Amortization

For detailed information please [click on our 2021 Activity Report](#)

SASA MILESTONES

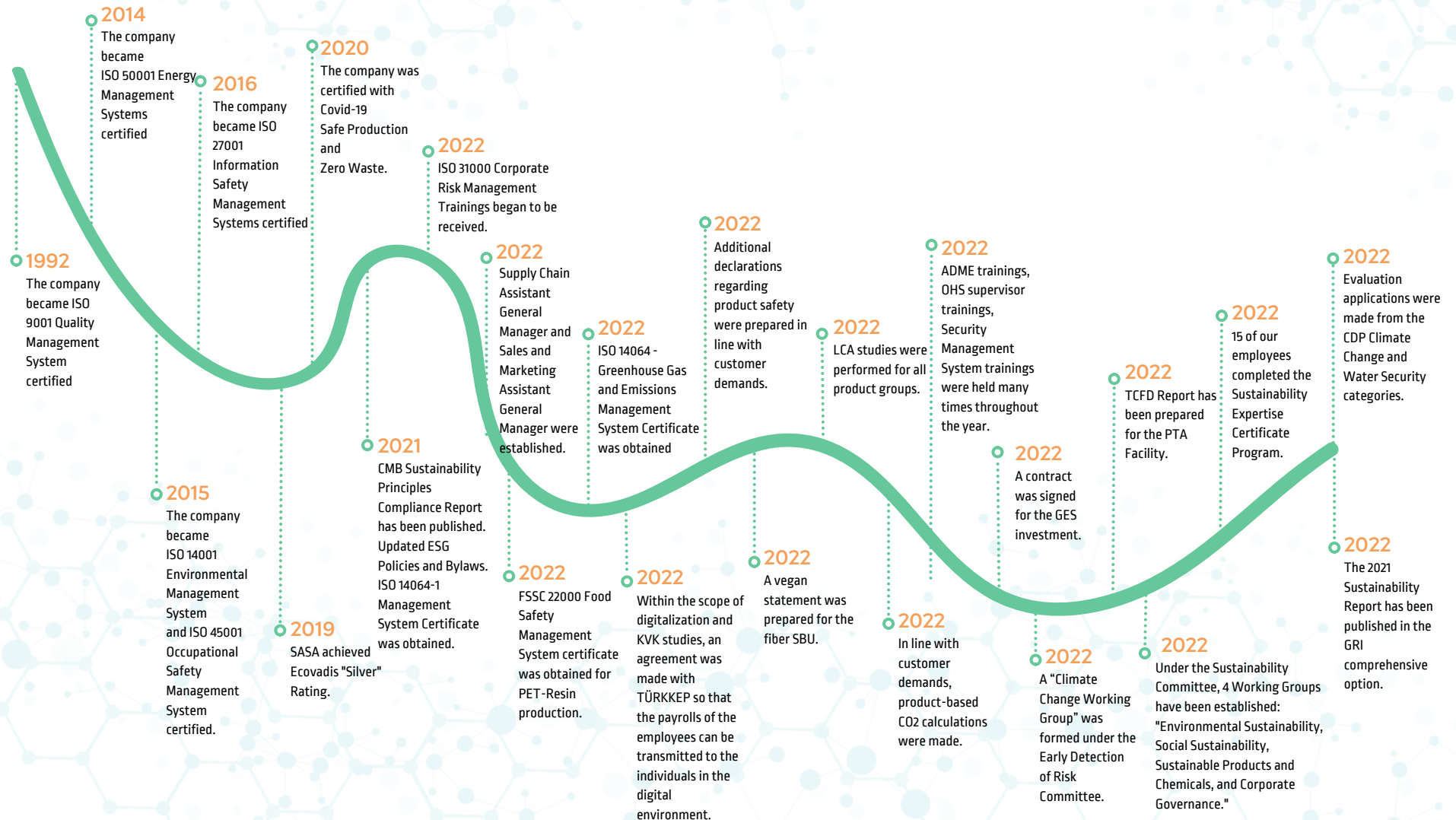
SASA in years



Sustainability Practices in years



SUSTAINABILITY MILESTONES



2022 OVERVIEW

GRI 2-6



SECTORAL OUTLOOK

Having closed 2021 with rising inflation rates, soaring up energy costs and economic slowdown, the global economy opened the 2022 with escalation of the tension between Russia and Ukraine into a bloody armed conflict, resulting in sanctions against Russia particularly in energy and finance sectors. Oil (WTI) prices soared up to USD 123 mainly fueled by supply concerns. Economic slowdown coupled with the disruptive effects of the war on the supply chains, commodity prices and economic confidence led the OECD to revise its year-end estimates as 3.1% for 2022 global growth rate, 5.3% for growth of Turkey, and 3% for growth rate of Turkey in 2023.

Shrinking global textile demand triggered by recession and fears of rising inflation restricted the purchasing activities to the sub-groups in the production chain. This resulted in the rising stock levels across the industry. Due to the global stagnation, container freight rates sunk down to the one-sixth of what they were in the first quarter of 2022 towards the end of the year, leaving a smaller domestic market to the Asian producers, who, to counterbalance such shrinkage, started pursue an overseas sales policy that is more aggressive than ever before.

In last quarter of 2022, when Russia banned the oil sales to the countries which impose a ceiling price for Russian oil, which further fueled the prices of oil and oil products. And the upward trend in the prices got once more support when China is expected to lift the coronavirus restrictions, and therefore the restoral of the normal life, which will revitalize the demand. The moderate climate in the last quarter in Europe alleviated the energy concerns, lowering energy costs below the expectations.

Despite the rising challenges in the industry, SASA managed to continue to be main raw material supplier in Turkey in 2022, accomplishing an export volume of 492 Billion USD to more than 50 countries, especially becoming the top supplier for the leading companies in Europe and United States. In this context, and given the rising export track record, new customer demands and rising domestic demands, our new investment, scheduled to complete in 2023 and 2024, which details were published on Public Disclosure Platform, will demonstrate how it is of such a strategic importance for not only our company but also our country.



EXPORT

We are the Turkey's leading producer in our product segment. Main goal of our Company is to sell 65% of our products in Turkey and export the remaining 35%.

Our major export destination is European Countries. In Europe, Germany is the top importer of our products, and, SASA is the first choice of Germany for PET Chips supply.

We supply 74% of our exports to Germany.

SASA Polyester Sanayi A.Ş. ranked 20th in the Top 500 Industrial Enterprises Report 2021 prepared by the Istanbul Chamber of Industry (ICI), it was the 38th company in the previous year. Moreover, our company ranked 83rd in the export ranking of Turkey in 2021.

2022 OVERVIEW



2022 OVERVIEW



SASA in Press



1968 yılında kurulan bükülmüş ve bir çok başarısı olan SAsA, Erdemoğlu Holding ile yendi-
den şaha kalktı. SAsA'nın hedeflerinin arasında Türkiye'nin ilk on şirketi arasında olmak var.
SAsA'da yapılan atılımlarla teknolojiyi yakından takip ettiklerini söyleyen Erdemoğlu Holding
Yönetim Kurulu Üyesi Dr. Mehmet Şeker, SAsA'nın endüstri 4.0 odaklı dev yatırım hamlesi ile
birlikte Türkiye'nin cari açığını azaltmaya yönelik adımları attığını belirtti.

**SASA polyester sanayinde
dünya liderliğine oynuyor**

Erdemoğlu Holding completes the success
chain with 'SASA'



SASA's huge investment gets the green light



SASA takes action to establish Europe's first
CTC plant



Preparing for Turkey's biggest investment



We will make Turkey's biggest investment



Erdemoğlu Holding to invest 150 million TL in
education in Trabzon

2022 OVERVIEW

GRI 2-6

OUR INVESTMENTS

To support the Petrochemical investment planned to launch in Yumurtalık region of Adana in 2024, the PTA Production Plant investment with a capacity of 1,500,000 ton/year continues in our Adana production campus. Plant is expected to generate an annual EBITDA of approx. 225 Million USD.

As part of SASA PTA Project, Turkish Electrical Corporation (TEİAŞ) started the expropriation and construction works for a 154 kV South Adana-SASA Central Power Distribution and Transmission Line.

Also, an investment decision is adopted for the textile, bottle and Pet chips production plant with an annual capacity of 330,000 ton, scheduled to be commissioned in the 2023 Q4. Investment is projected to contribute an annual turnover of approx. 450 Million USD.

Company, further, decided to invest in Fiber Production plant with an estimated investment cost of 330 Billion USD and an annual capacity of 367,500 ton, scheduled to be commissioned in the 2024 Q2. Annual turnover contribution of the investment is expected to be approx. 550 million USD in today figures.

Company plans to install Solar Power Cells (SPC) on the buildings in its Adana central campus, generating an electrical power of 16.4 MWdc. Investment is scheduled to be commissioned in 2023 Q2, and works are continuing at full speed.

Company targets to contribute to the sustainable growth goals thanks to the Propylene (PDH plant) Production Plant with a capacity 1,000,000 ton/year, to be installed in the Yumurtalık investment site. For this purpose, Company signed license, technical service and warranty contracts with Honeywell UOP, kicking off the works for this investment projected to be completed in first half of 2026. Investment is expected to have a turnover contribution of 1.2 Billion USD in current rates, with a projected investment cost of 1.5 Billion USD.

OUR R&D ACTIVITIES

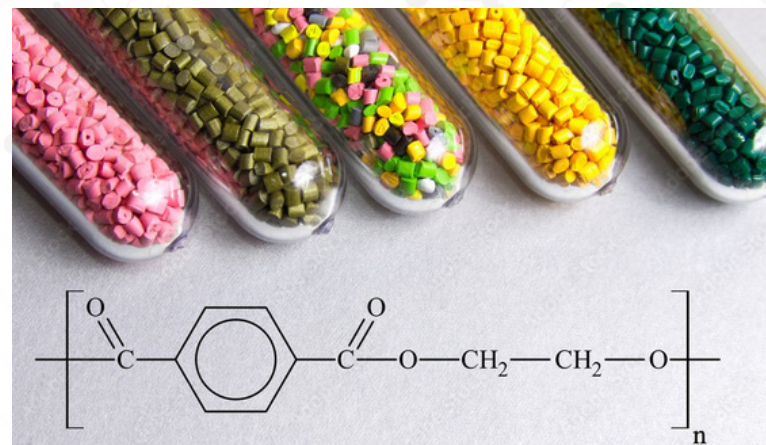
SASA continued its R&D activities in 2022, focusing on the development of new products and business lines in the areas where it has strong corporate competence, notably of sustainable and environment-friendly products, that will create value for all stakeholders, particularly customers.

Project works briefly include:

- Growth in the polyester-based polymers, and development of innovative polymer solutions with new features,
- Growth and product portfolio optimization in the fiber range
- Collaboration with other corporations to facilitate growth through development of new business areas

where important progress has been made in 2022 in line with the main corporate strategies.

In 2022, company continued to commit resources especially for development of environment- and human-friendly new products in line with the new national and international regulations, furthering the commercialization and marketization of the many specialty products in specialty polymer group during the year. In this context, the share of products developed in 2022 made up around 7.4 % of the total sales, compared to 5% in 2021.



2022 OVERVIEW

ECONOMIC IMPACTS OF OUR INVESTMENTS

Investment	Planned Year of Commissioning	Investment Scope and Commitments	Significant Indirect Economic Impacts
Solar Power Plants (SPP)	2023	16,4 MWp installed capacity - Annual turnover contribution: USD 2.5 million	- Free and clean electrical power generation - Less dependency on import - Contribution to carbon reduction commitments with reduced carbon emissions - Incentives provided by financial organizations - Number one choice of customers who prefer green energy
PTA Production Plant	2023	1.500.000 tons/year production capacity - Cost advantage is approximately USD 350 million per year	- Contribution to export and economy of Turkey - New employment opportunities - New employment opportunities in the supply chain
Textile Chips, Bottle Chips, Pet Chips Production Plant	2024	- Textile chips, bottle chips, pet chips production plant with a total capacity of 330,000 tons/year - Annual turnover contribution is USD 475 million	- Minimizing logistic risks by producing its own raw materials · Contribution to export and economy of Turkey - New employment opportunities in the supply chain - Reduced trade deficit
Fiber Production Plant	2024	367.500 tons/yıl kapasiteli elyaf ve low melt tesisi - Yıllık ciro katkısı 570 milyon USD	- Reduced dependency on imported raw materials - Employment of competent/trained people - Less brain drain

2022 OVERVIEW

OUR PRODUCTION OPERATIONS

In 2022, significant opportunities for productivity enhancement were created by generating projects that focus on improving our production processes and establishing our waste management system on "Zero Waste" principles, with the aim of preventing the formation of waste to the maximum extent possible and enabling the recycling and reuse of waste. This is similar to the previous year.

The improvement efforts made to increase productivity and minimize downtime in our production processes, along with the widespread implementation of statistical process control methods, have played a significant role in adding value to our production.

Our work on projects that make a difference in many areas such as Energy Efficiency, Sustainability, Corporate Risk Management, Renovation, Innovation, and Human Investment, which started in previous years, has continued, and we continue to contribute within a sustainable framework.

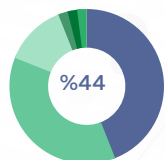
As in previous years, we continue to carry out our successful activities that add value to our company, such as ISO 9001 quality management systems and process management, ISO 50001 Energy Management System, ISO 31000 Corporate Risk Management Systems, 5S, PSRM, and TPM, with intensive internal and external training activities this year as well, adding our philosophy of continuous improvement.

Product Groups	2022 (tons)	2021 (tons)	Change (tons)	Change (%)
Polyester Chips	495,221	482,762	12,459	%3
Polyester Fiber	418,553	413,122	5,431	%1
POY	352,622	293,696	58,926	%20
DMT	163,288	231,159	-67,871	-%29
Polyester Yarn	151,438	134,508	16,930	%13

2022 OVERVIEW

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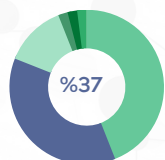
MARKETS SERVED



HOME TEXTILE & CLOTHING



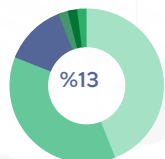
Fiber is turned into pillows, toy stuffing, duvets, all kinds of coats, furniture fillings, mattresses, and decorative cushions after being combed, turned into beads, or bonded.



TECHNICAL TEXTILE



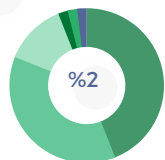
We add value to our customers in the textile industry with customized solutions and special products (such as high viscosity and hydrolysis-resistant PETs), enabling us to serve very different and diverse sectors.



FILM AND PACKAGING



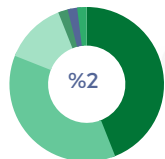
Our film-type PET products are used in the production of food-contact and non-food-contact film and packaging materials.



INDUSTRIAL END USES



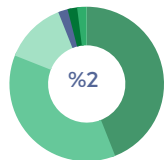
Our high viscosity polyester polymer products are used in industrial applications that require high strength, depending on their final use.



AUTOMOTIVE



Our polymer, fiber, and filament products are used in the production of automotive parts.



PLASTICIZER



The phthalate-free product named SASA Plus 88 is used as a plasticizer in PVC production.

Differentiated and high value-added polyester solutions for targeted end markets

OUR PRODUCT GROUPS

GRI 2-6

SASA is the Turkey's largest polyester fiber producer, serving both domestic and international markets with its customized polyester solutions tailor-made to the demands of our customers. End-to-end vertical integration scheme of the SASA in polyester production provides it a competitive edge over the competitors, further bolstering its leadership position.

As a pioneer in polyester industry with its over 55 years of experience, SASA is the Turkey's number one producer and a world's leading producer in specialty polyester polymers, fiber and filament yarn segment.

FIBER → Sales volume %36

The fiber section provides services to several industries with its 3 main product groups; Textile, Nonwoven and Fiberfill.

SASA produces semi-dull raw white fibers that have high tenacity, low elongation and perfect dye take-up qualities for open- end, ring and vortex yarn production in the textile industry. Furthermore, the company also produces coloured/black polyester fibers with high color depth and purity.



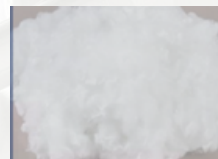
Textile



Nonwoven

SASA provides raw materials to a wide range of application areas in the nonwoven industry including most notably hygiene and automotive and imitation leather, wigan, filtration, geotextile and insulation. The company produces high quality polyester staple fibers with minimum foaming tendency, hydrophilic quality, excellent thermal stability, high combing performance and high cohesion.

In the fiberfill industry, SASA meets filler demands of fiber balls, shoulder padding, plush toys, pillows, quilts, and furniture manufacturers. SASA offers Hollow Conjugated Siliconized, Hollow Conjugated, Hollow, and Solid fiberfill products for the industry and has gained a significant market share with its high volume, low weight, thermal insulated, and flame-retarded products.



Fiberfill

FILAMENT → Sales volume %24

SASA Filament Department has commissioned the “Textured Yarn” with a capacity of 175,000 tons/year and the “POY” facility with a capacity of 350,000 tons/year in 2020, using Industry 4.0 technology. By 2021, these enterprises continue production at full capacity.

Synthetic filament yarns made of 100% polyester are produced for the textile industry (Home Textile, Carpet, Underwear and Overwear, Jeans and Socks), and packaging, healthcare and automotive industries which are directly or indirectly supplied by the textile industry.

Textured yarns have similar looks and properties as natural fibers such as cotton, wool and linen and are also used to give superior qualities to end products.



Textured Yarn

POY Yarns are partially oriented, partially stretched and have a non-crimped and non-twisted structure and the product is textured to become crimped and twisted. The resulting textured yarn is softer, more flexible and has higher heat retention capacity compared to regular/normal yarns.



POY

Adopting a customer satisfaction-centered production approach, SASA tests all yarns it produces in its own laboratory (Tensile, strength, color, centre and denier etc.).

OUR PRODUCT GROUPS

GRI 2-6

SPECIAL POLYMERS AND CHEMICALS → Sales volume %40

Special Polymers and Chemicals Business meets the needs for polyester and its derivatives both in Turkey and abroad thanks to its integrated and functional production facilities.

In this context, SASA, produces homo and co-polymer derivatives and thermoplastic polyester elastomers of PET and PTBT products, the sub-categories of Polyester, in its batch and continuous polymerization lines, as well as functionally differentiates the products through crystallization, drying and solid phase polymerization processes, transforming them into functional products for the market needs.

Special Polymers and chemicals product group also include dioctyl terephthalate plasticizers that do not contain polyester monomer dimethyl terephthalate and phthalate in addition to polymer products.



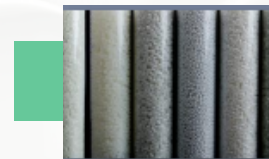
PET Resin



PET Chips



SASA Plus 88



Advanced Polymers



DMT (Dimethyl Terephthalate)



PBT Chips

SASA's polymer and chemical products that are processed into endproducts in a wide range of industries including textile, automotive, packaging, medical, hygiene, and engineering have become present in every stage of consumers' lives.

In line with its dynamic structure, SASA increases its product variety and quality in the Polymers and Chemicals Business with its new ongoing and completed investments in production plants.



Thermoplastic Polyester Elastomers (TPEE)

MEMBERS AND PARTNERSHIPS

GRI 2-28

As a world's leading polyester fiber, filament yarn, polyester-based polymers, specialty polymers and semi-products, we engage in commerce, export and industry sectors, as well as a member of the leading non-governmental organizations. We actively take part in activities of these organizations, exchanging our industrial experiences and opinions. Also, we contribute to the development of policy, regulation and information documents of the relevant industrial associations and groups. Also, we initiated our membership to the United Nations Global Compact (UNGC) in 2022.

We have initiated our membership to the United Nations Global Compact (UNGC) in 2022. We embrace the principles set forth by UNGC on issues such as human rights, working conditions, environment, and anti-corruption, and conduct our business processes in line with these principles to fulfill our responsibilities towards our customers, investors, and other stakeholders. Our compliance index with the UNGC Principles can be found in the annex of our Report.





2

CORPORATE
GOVERNANCE

OUR VALUES



VISION

SASA, the Turkey's first and largest polyester and polymer producer, and the leader of the Europe, Middle East and Africa region, targets at making Turkey one of the world's top three polyester producer, and becoming a global leader with the petrochemical investments, driven by and harnessing the sustainable growth mindset.



MISSION

- Ensure sustainable growth
- Create value for all our stakeholders, notably of our personnel, suppliers, customers, shareholders and society in general
- Share this value fairly with all our stakeholders in line with corporate and social responsibility principles.
- Further the spirit of innovation, ensuring constant self-development.

We embrace all natural entities, living or non-living as a respected whole, being aware of our responsibility to pass on a green and clean world to next generations while meeting the present needs of the society.



OUR VALUES

Embracing the principle of working in compliance with local and global ethical values, SASA adopted the guiding fundamental values as follows:

- No tolerance to discrimination on the basis of race, ethnicity, language, religion, opinion or gender
- Respect the fundamental human rights, children's rights, animal rights and not engaging with parties known to violate these rights
- Serve the society with the awareness of corporate citizenship
- Observe environmental sustainability in all fields of activity and raise the awareness on the environmental responsibility among its stakeholders
- Use, support development and penetration of, environment-friendly technologies
- Create the highest value for the personnel, suppliers, customers, shareholders and the society in general
- Carry out activities to the highest safety and security standards

“Our customers, suppliers, employees and all of business partners are included in our sustainable development policy development process and creating a collective consciousness with our stakeholders and develop national and international collaborations to achieve this will be our biggest motivation in our sustainability journey.”

CORPORATE GOVERNANCE APPROACH

GRI 2-10, GRI 2-12, GRI 2-13

In line with the basic principles of our corporate governance, i.e. accountability, transparency, fairness and responsibility, we create our corporate sustainability processes by including all our stakeholders in areas such as environmental awareness, ethical conduct, corporate strategy, compensation and risk management.

A transparent, fair and effective board of directors lies at the center of our functional corporate governance structure. Guided by our responsible management mindset, we take care to make our corporate governance approach increasingly more sustainable according to which we carry out our management processes. We are developing many policies and making disclosures to shape our conducts and business relations in parallel with importance we placed on Sustainability Principles and ethical values. Our Board of Directors plays an important role in implementation of the best governance practices while creating a strong corporate culture in the company via Senior Management and Committees.

We embrace corporate governance principles as a guide to penetrate the Sustainable Development Goals in all units of the company. By involving our customers and suppliers throughout our value chain, we strive for long-term environmental, social and economic solutions that benefit key stakeholders.

Our Company complies with and applies the mandatory principles under the CMB's "Corporate Governance Communiqué", which is promulgated in the Official Journal No. 28871 of January 3, 2014. [Click here](#) for 2022 SASA Sustainability Principles Compliance Framework. [Click here](#) for our Company's Corporate Governance Principles Compliance Report. [Click here](#) to access SASA Corporate Governance Approach.



OUR GOVERNANCE BODY

GRI 2-5, GRI 2-9, GRI 2-11, GRI 2-12, GRI 2-13, GRI 3-3



To consummate our corporate goals, reporting and negotiation-based information exchange between senior management, board of directors and stakeholders takes place as defined in our governance structure. Thus, negotiation processes are formed between stakeholders and the highest governance body on the economic, environmental and social topics.

The helmet of our governance structure is composed by all SASA Board Members and Senior Management Members. Our governance structure is led by our Chairman Mr. İbrahim Erdemoğlu. Election process and committee election process of our governance structure are described in SASA Corporate Governance Approach. Please [click here](#) to access SASA Corporate Governance Approach.

Our Board of Directors is elected by General Assembly, and transfer of the authority is restricted. In line with the checks and balances principle of institutionalization, SASA Chairman and General Director have different duties. This clear division delineates the limits of decision-making power for each position in our corporate structure, ensuring checks and balances between powers and authorities. General Director is also a member, with an executive function, of Board of Directors.

Our Governance Body is comprised of ;

- Board of Directors,
- Board of Directors Committees and Working Groups,
- Top Management and Supervisory units.

Both internal auditor and independent third-party auditor audit the activities of Erdemoğlu Holding.

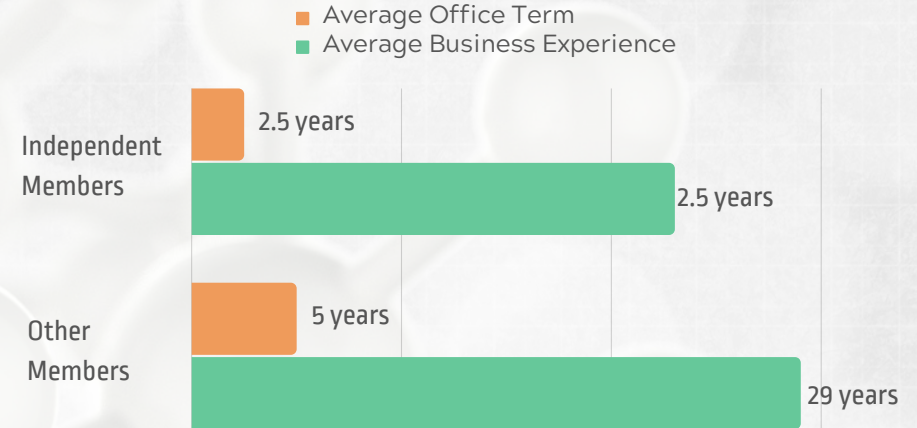
BOARD OF DIRECTORS

Highly seasoned and qualified Board Members of our company has committed themselves to uphold and further the company's values proactively and effectively, embracing the governance approach.

Our Company's Board of Directors defines the company strategies while observing the interests of stakeholders, and taking account of activities and performance of the company. Our Board of Directors, who are also part of the committees of Company, assumes the task of risk monitoring, ensure company activities comply with the legislation, and oversee proper management and furtherance of the operations.

As of 31 March 2022, our company has a single-stage Board of Directors composed of 11 members, with a gender composition of two women and nine men. In line with our equal opportunity approach, we completed all preparations to ensure more women take part in our Board of Directors in the upcoming periods. **By 2025, we aim to ensure 25% of our Board of Directors composed of women.**

Please [click here](#) to access the SASA Board of Directors' Diversity and Inclusion Policy.



Members of the Board of Directors	Member of the Executive Board	Experience in the Industry or Education	Finance/ Business/ Experience in Accounting or Education	Experience	Role	External Roles
İbrahim Erdemoğlu	✓	✓	✓	39 years	Chairman of the Board	Erdemoğlu Holding A.Ş., Chairman of the Board of Directors; Merinos Halı San. ve Tic. A.Ş., Deputy Chairman of the Board of Directors; Merinos Mob. Teks. San. ve Tic. A.Ş., Chairman of the Board of Directors; Dinarsu İmalat ve Tic. A.Ş., Chairman of the Board of Directors; Merinos Halı Mob. ve Teks. Ürünleri Paz. A.Ş., Chairman of the Board of Directors; İlke Yer Kap. Mob. ve Teks. Ür. Paz. A.Ş., Chairman of the Board of Directors; Erdemoğlu Proje Mşv. İnş. A.Ş., Chairman of the Board of Directors; Erdemoğlu Enerji Elek. Ürt. A.Ş., Chairman of the Board of Directors; Bali Rüzgar Elek. Ür. San. ve Tic. A.Ş., Chairman of the Board of Directors; Erdemoğlu Dış Tic. A.Ş., Chairman of the Board of Directors; SASA Dış Tic. A.Ş., Chairman of the Board of Directors.
Ali Erdemoğlu	X	✓	✓	51 years	Deputy Chairman of the Board	Erdemoğlu Holding A.Ş., Deputy Chairman of the Board of Directors; Merinos Halı San. ve Tic. A.Ş., Chairman of the Board of Directors; Merinos Mobilya Tekstil San. ve Tic. A.Ş., Deputy Chairman of the Board of Directors; Dinarsu İmalat ve Ticaret A.Ş., Deputy Chairman of the Board of Directors; Erdemoğlu Proje Mühavirlik İnşaat A.Ş., Deputy Chairman of the Board of Directors; Erdemoğlu Enerji Elektrik Üretimi A.Ş., Deputy Chairman of the Board of Directors; Bali Rüzgar Elektrik Üretim Sanayi ve Ticaret A.Ş., Deputy Chairman of the Board of Directors; SASA Dış Tic. A.Ş., Deputy Chairman of the Board of Directors.

BOARD OF DIRECTORS

Members of the Board of Directors	Member of the Executive Board	Experience in the Industry or Education	Finance/ Business/ Experience in Accounting or Education	Experience	Role	External Roles
Mehmet Şeker	✓	✓	✓	19 years	Member of Board of Directors	Board Member at Erdemoğlu Holding A.Ş.
Mehmet Erdemoğlu	X	✓	✓	12 years	Member of Board of Directors	Board Member of Erdemoğlu Proje Müşavirlik İnşaat A.Ş., Board Member of Erdemoğlu Enerji Elektrik Üretimi A.Ş., Board Member of Bali Rüzgar Elektrik Üretim Sanayi ve Ticaret A.Ş., Board Membership at SASA Dış Tic. A.Ş., Vice Chairman of the Board of Erdemoğlu Dış Tic. A.Ş.
İrfan Başkır	✓	✓	✓	29 years	Member of Board of Directors	Does not have any external duties
Mustafa Kemal Öz	✓	✓	✓	26 years	Member of Board of Directors	Does not have any external duties
Güven Kaya	✓	✓	✓	30 years	Member of Board of Directors	Does not have any external duties
Kadir Bal	X	✓	✓	21 years	Member of Board of Directors (Independent)	Does not have any external duties
Hacı Ahmet Kulak	X	✓	✓	26 years	Member of Board of Directors (Independent)	Board Member of Ideal Independent Audit Co. Inc
Ayten Topalkara	X	✓	✓	26 years	Member of Board of Directors (Independent)	Does not have any external duties
Servi Sebe	X	✓	✓	21 years	Member of Board of Directors (Independent)	Does not have any external duties

SENIOR EXECUTIVE BODY

Our Top Management represents our company in our relations with third parties, and define the sustainable strategies that have economic, social and environmental impacts in line with the Vision and Mission of SASA.

Senior Executives	Role	Sectoral Experience / Education	Positions Performed in the Last Five Years
Mustafa Kemal Öz	General Manager, Board Member	Chemical Engineer	Head of Investments Group, Deputy General Manager
Şakir Sabri Yener	Deputy General Manager, CFO	Business and Management Professional	Finance Manager
Güven Kaya	Deputy General Manager, Board Member	Chemical Engineer	Polymer Enterprises Group President
Abdullah Keleş	Deputy General Manager	Textile Engineer	Group Manager for Domestic Sales of Fiber, Filament, and Chip Products
Alper Söğüt	Deputy General Manager	Machine Engineer	Energy Group President, Polymer Operations Group President
Ersoy Nisanoğlu	Deputy General Manager	Chemical Engineer	Factory Manager
Hasan Oğuzhan Öz	Deputy General Manager	Chemical Engineer	PET Chips Business Group Manager
Sivakumar Natarajan	Deputy General Manager	Textile Technologies	POY Businesses Manager
Taşkın Aytekin	Deputy General Manager	Industrial Engineer	The Group Manager of Procurement & Import

COMMITTEES AND WORKING GROUPS

Board of Directors oversees and oversees entire company via the committees directly reporting to it. The composition, activities and effectiveness of the committees are subject to periodical reviews. In addition, necessary actions are taken to ensure the committee processes be monitored and documented systematically. Please [click here](#) to access the statutes of the committees directly reporting to Board of Directors.

These committees include Corporate Governance Committee, Audit Committee, Early Detection of Risk Committee and Sustainability Committee. As there is no separate dedicated Nomination Committee and Remuneration Committee in the current structuring of the Board of Directors, the functions of these committees are delegated to Corporate Governance Committee.

There are 5 Work Groups active in the company, including Climate Change Working Group organized under the Early Detection of Risk Committee, and the Environmental Sustainability, Sustainable Products and Chemicals, Social Sustainability and Corporate Governance Working Groups organized under the Sustainability Committee.

Working Groups comprising experts from many different departments has a multidisciplinary structure.

- Working groups set and review the goals in their own areas of practice, taking action whenever necessary.
- For the subjects requiring input from multiple work groups, relevant work groups works collaboratively
- Sustainable Committee reviews the works of the work groups through periodical meetings, and provides feedback to the relevant work groups.
- Sustainable Committee reviews the works of the work groups through periodical meetings, and provides feedback to the relevant work groups.

As part of the resolutions to be adopted at the General Assembly Meetings with respect to the company strategies, the sustainability goals and necessary actions to achieve these goals are implemented and monitored via work groups under the relevant committees which, in turn, directly report to Board of Directors. As a result, company strategies are shaped taking sustainability perspective into consideration at the origin.

EARLY DETECTION OF RISK COMMITTEE

The committee is formed by Board of Directors to early detect any kind of risks, strategic, operational or financial, that may jeopardize the existence, development and furtherance of our company, and to take necessary actions accordingly and manage the risks.

Chairperson:

Servi Sebe (Independent Board Member)

Members:

Haci Ahmet Kulak (Independent Board Member)

Ayten Topalkara (Independent Board Member)

- Early Detection of Risk Committee convened 8 times in 2022
- In 2022, the Climate Change Working Group was established under the Early Detection of Risk Committee

CLIMATE CHANGE WORKING GROUP

It is decided for Climate Change Work Group to convene two times every month.

Work Group is tasked with the activities such as adaptation to transition to low carbon economy, minimization of carbon emission, and analysis of risks and opportunities with regard to climate changes.

Working Group, also;

- Reports the climate-related risks and opportunities, along with the potential financial impacts, to Early Detection of Risk Committee,
- Aims to ensure that committee has the corporate support so as to create a structure where climate-related risks are incorporated in the corporate risk management program,
- Pioneers the creation of a process to integrate climate-related risks in the corporate risk database,
- Provides inputs regarding the financial impacts of the climate-related risks for publication in the Annual Integrated Report.

COMMITTEES AND WORKING GROUPS

CORPORATE GOVERNANCE COMMITTEE

Chairperson:

Servi Sebe (Independent Board Member)

Members:

Haci Ahmet Kulak (Independent Board Member)

Ayten Topalkara (Independent Board Member)

Ali Bülent Yılmazel (Financial Affairs and Investors' Relation Group Manager)

- *Corporate Governance Committee convened 7 times in 2022*
- *Studies were carried out on current topics in Corporate Governance*

AUDIT COMMITTEE

Chairperson:

Servi Sebe (Independent Board Member)

Members:

Haci Ahmet Kulak (Independent Board Member)

Ayten Topalkara (Independent Board Member)

- *Audit Committee convened 5 times in 2022.*
- *The studies conducted by the Internal Audit Unit have been reviewed and actions have been taken according to the evaluations.*
- *The studies of the independent audit firm have been reviewed.*
- *The agenda items on Business Ethics and Code of Conduct Violations and Reviews were discussed.*

SUSTAINABILITY COMMITTEE

Sustainability Committee carries out works and develops projects to ensure sustainability integrated and embedded in the company structure

Chairperson:

Kadir Bal (Independent Board Member)

Members:

Haci Ahmet Kulak, Mustafa Kemal Öz, Ayten Döğür, Hidayet Gök, Ali Öz, Şakir Sabri Yener, Alper Söğüt, Ersoy Nisanoğlu, Güven Kaya, Sivakumar Natarajan, Ali Bülent Yılmazel, Hasan Oğuzhan Öz, Levent Özgen, Mustafa Kemal Yıldırım, Taşkın Aytekin, Ahmet Atıcı

- *Sustainability Committee convened 7 times in 2022*
- *Under the Sustainability Committee, 4 Working Groups are established: Environmental Sustainability, Sustainable Products and Chemicals, Social Sustainability and Corporate Governance.*

ENVIRONMENTAL SUSTAINABILITY WORKING GROUP

SOCIAL SUSTAINABILITY WORKING GROUP

SUSTAINABLE PRODUCTS AND CHEMICALS WORKING GROUP

CORPORATE GOVERNANCE WORKING GROUP

- *Working groups are formed from individuals working in the relevant departments of the Company with the aim of carrying out projects related to the goals determined by the committee to support sustainability studies.*
- *Coordination of the working groups is carried out by the Group Coordinator*
- *The working groups also gather internally and present the output of their meetings in the form of reports to the Group Coordinator*
- *The Working Group Coordinator presents meeting minutes and project output reports to the committee electronically*

SUSTAINABILITY COMMITTEE

SUSTAINABILITY COMMITTEE ACTIVITIES

At our company, the Sustainability Committee is formed with the Board Resolution No. 64 of 13.12.2021 of SASA Polyester Sanayi A.Ş. pursuant to "Compliance Framework for Sustainability Principles" regulation published on 2 October 2020, as an amendment to the Corporate Management Communique of Capital Market Board (CMB) on the basis of the Paris Accord ratified by our country as part of Climate Change Movement, and the UN Sustainable Development Goals.

Sustainability Committee aims at creating sustainability policies under guidance of the sustainability strategy, setting science-based goals, and implementing, monitoring and auditing relevant practices to leverage the value our company have created in terms of environment, social responsibility and corporate governance.

SUSTAINABILITY GOVERNANCE

We are committed to carry out all our sustainability efforts in line with the Sustainable Development Goals with a view to reach out next generations well as pass a better habitable earth on to the next generation. In sustainability journey we set off driven by the awareness on the importance of corporate governance, we maintain and facilitate sustainability governance of our company under the leadership of SASA Board of Directors in order to boost up effectiveness of our efforts as well as permanently rivet our achievements.

To achieve our goals, we devise our strategies by engaging third parties in our sustainability governance mechanisms. We constantly oversight this mechanism, developing it with learned lessons process.

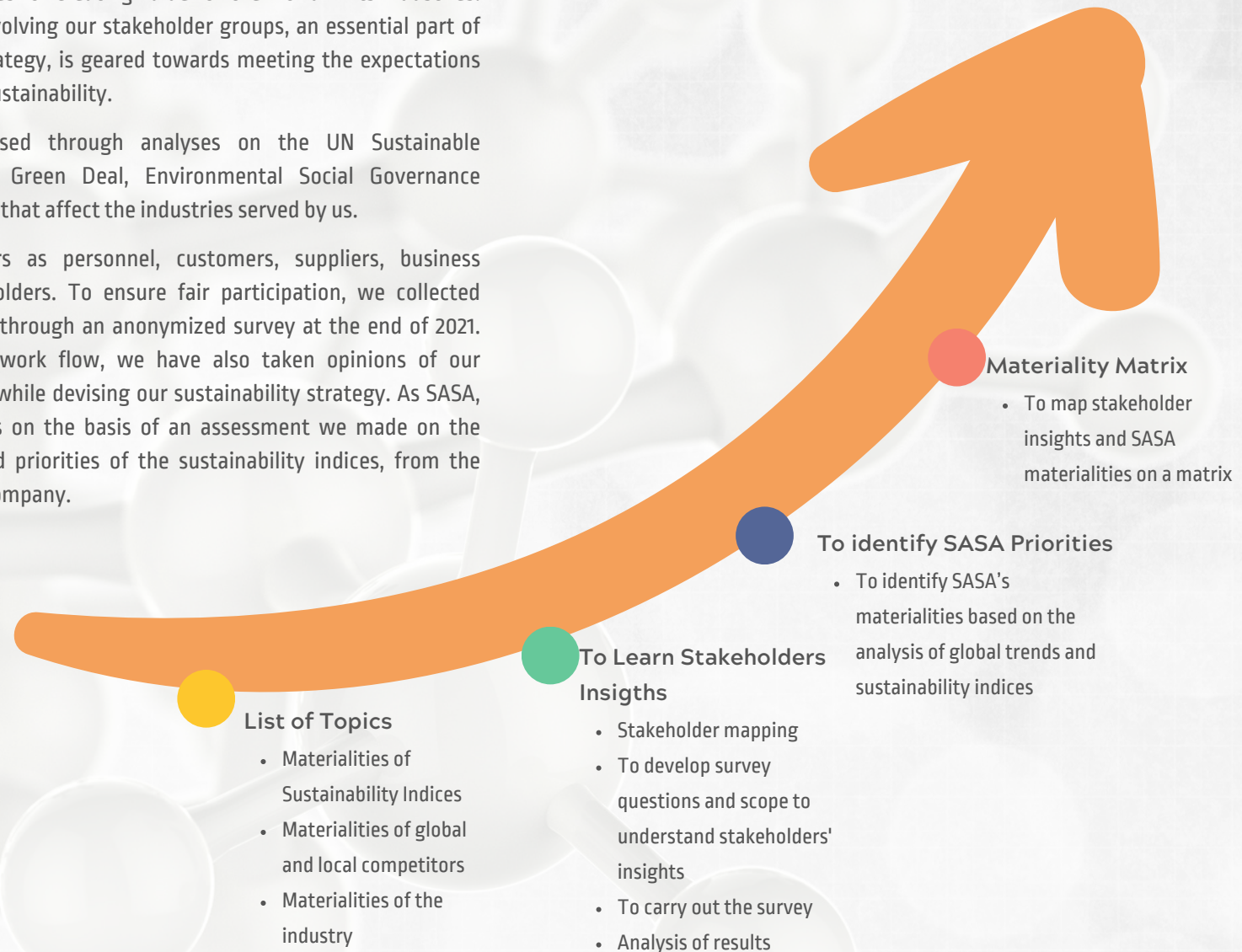


MATERIALITY ANALYSIS

SASA Polyester Sanayi A.Ş. strives for creating value for the world in its industries. Our materiality analysis, also involving our stakeholder groups, an essential part of our Corporate Sustainability Strategy, is geared towards meeting the expectations of our stakeholders in terms of sustainability.

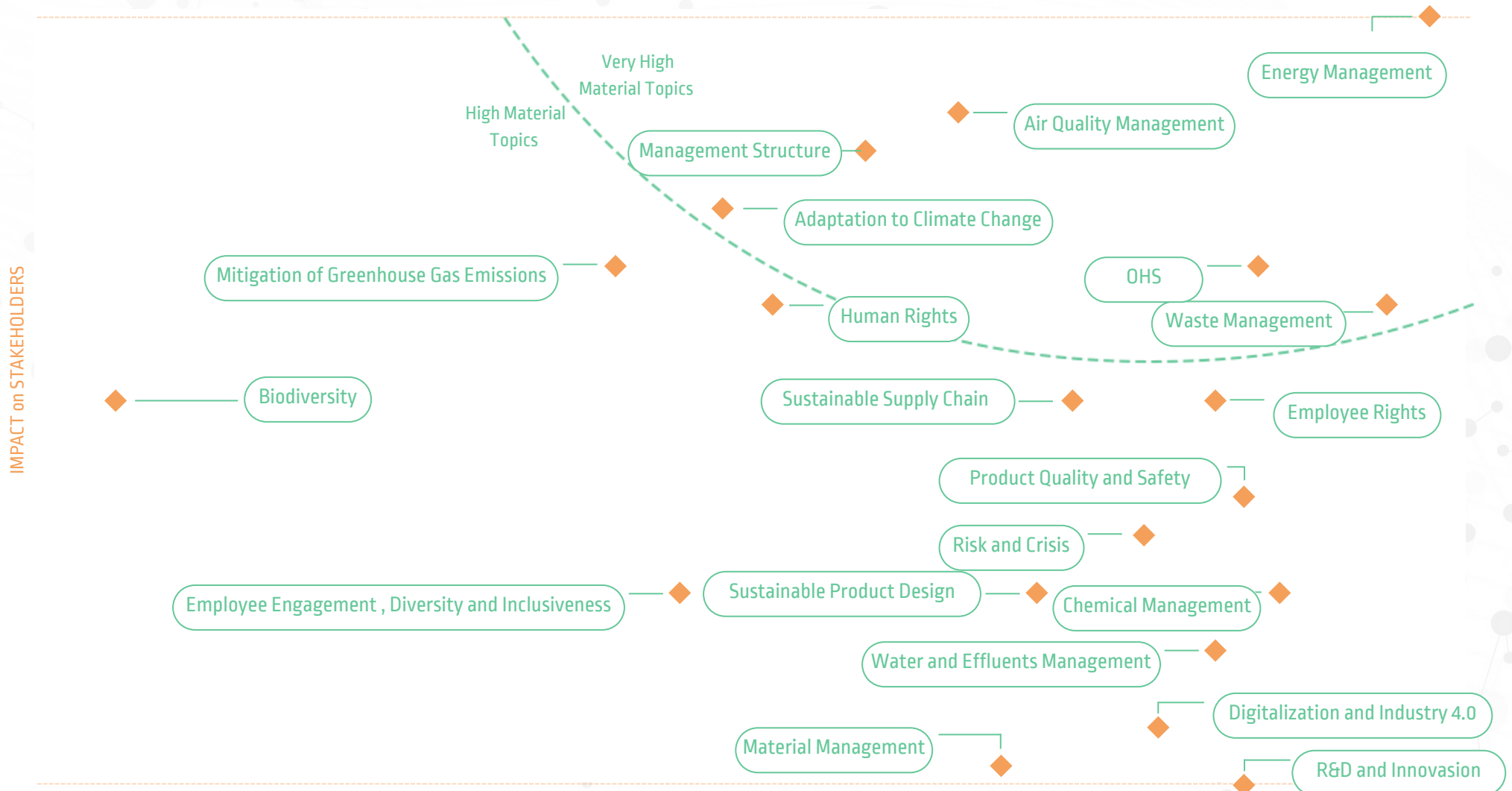
Our priority topics are assessed through analyses on the UN Sustainable Development Goals, European Green Deal, Environmental Social Governance performance as well as the trend that affect the industries served by us.

We identified our stakeholders as personnel, customers, suppliers, business partners, investors and shareholders. To ensure fair participation, we collected opinions of our all stakeholders through an anonymized survey at the end of 2021. Just as in every point of our work flow, we have also taken opinions of our stakeholders into consideration while devising our sustainability strategy. As SASA, we identified our priority topics on the basis of an assessment we made on the industrial and global trends and priorities of the sustainability indices, from the perspective of dynamics of our company.



MATERIALITY MATRIX

As a result of the assessment and engagement of the stakeholders, we plotted the SASA materiality matrix covering the topics of very high priority, and high priority. The Y axis of SASA Materiality Matrix shows the impact of the priority topics on the stakeholders, with X axis on the SASA. We made use of the results of materiality analysis while setting our sustainability goals and developing our sustainability strategy.



MATERIAL TOPICS

GRI 3-2

In materiality matrix, we have considered the topics of "Very High" and "High" priority as significant factors in development of SASA's corporate sustainability strategy. As a result of the materiality analysis, we identified 18 priority issues in total, including 6 very high priority and 12 high priority topics.

Very High Material Topics

- Energy Management
- Air Quality Management
- Management Structure (Independence and diversity)
- Waste and Hazardous Substance Management
- Occupational Health and Safety (OHS)
- Adaptation to climate change

High Material Topics

- Employee Rights
- Human Rights and Societal Relations
- Mitigation of Greenhouse Gas Emissions
- Sustainable Supply Chain Management
- Product Quality and Reliability
- Risk and Crisis Management
- Chemical Management
- Sustainable Product Design and Life-Cycle Management
- Water and Effluents Management
- Biodiversity
- Employee Engagement , Diversity and Inclusiveness
- Digitalization and Industry 4.0



OUR SUSTAINABILITY STRATEGY

At SASA, we embrace a sustainable development approach that not only meets the needs of today but also does not neglect future generations in line with the increasing global population and demands. We also explore conscious consumption methods and alternative resources to ensure the sustainability of natural resources.

We are aware of our responsibilities to overcome global issues such as climate change, poverty, hunger, inequalities, water scarcity, and loss of biodiversity and contribute to the United Nations Sustainable Development Goals. We aim to increase living standards and prosperity by expanding our investments and prioritize promoting sustainable development in our work and decision-making processes

We update our fully integrated sustainability approach every year in line with our mission, vision, and strategy. This allows us to aim for growth in our investments while also aiming to increase living standards and well-being. We prioritize promoting sustainable development in our work and decision-making processes.

In our Sustainability Report, we evaluate the positive and negative trends of our activities for which we are responsible in our impact area using Key Performance Indicators (KPIs) and take corrective actions through internal and external audits; we develop initiatives to improve our impact in local areas from a social, environmental, and economic perspective. We follow national and international standards to provide the best quality in line with the needs of our stakeholders.



To conduct business activities more efficiently from an environmental, social, and governance perspective

- We commit to protecting human and labor rights, social justice, business ethics, diversity in the workforce, gender equality and equal opportunity, stakeholders' cooperation, legal compliance, and taking preventive measures against corruption, bribery, mobbing, discrimination, and child labor;
- To create necessary resources to integrate sustainability values that keep our ecological footprint low, fight climate change, use resources efficiently, save water, prioritize efficient and reliable energy technologies, and support circular economy both in our operations and operations of our suppliers in our value chain;
- To review our sustainability policy regularly and update it by consulting with relevant departments.

OUR SUSTAINABILITY GOALS

We have grouped our sustainability goals into three categories: Environmental Sustainability, Social Sustainability, and Corporate Governance.

Goals set for Environmental Sustainability are covered under four titles: Climate Crisis and Carbon Management, Environmental Responsibility, Sustainable Product Management, and Circular Economy. Social sustainability goals have three categories: Rights, Equalities & Ethics, Corporate Social Responsibility & Cooperation, Health & Safety. Corporate Governance goals are reviewed in three groups: Sustainability Governance, Corporate Governance Structure, and Stakeholders Engagement.

SDGs that our environmental, social, and corporate governance goals contribute to are matched in the tables. Information that summarizes SASA's current status regarding sub-goals is shown in the tables. Short and long-term qualitative and quantitative goals have been set.

The SDGs which SASA contributes to the UN SDGs in line with its sustainability goals and activities are as follows:



ENVIRONMENTAL SUSTAINABILITY GOALS

Main Title	Relevant SDGs	Topic Titles	Base Year -2021	Goal	Current Situation - 2022
Climate Crisis&Carbon Management	   	Green Procurement Practices	In 2021, the Green Procurement Policy was established.	- Integration of Green Purchasing criteria into the SAP program for purchase requests created for all material purchases, including office supplies, in 2023 - Creation of Green Purchasing Application Plan until 2025	The main headings of the green purchasing implementation plans have been established, and studies are continuing on the sub-fractions. In 2022, our purchases were carried out in a way to minimize unnecessary purchases, to supply products made from recycled raw materials and to prefer equipment with lower energy consumption.
			In line with the Green Procurement Policy, the existing air conditioners in the facility are evaluated in terms of energy efficiency.	Replacing all of the air conditioners used in the facility with devices in the most efficient class until 2025	In 2022, 70 air conditioner has been supplied, all of them have A++ energy efficiency. Thus, energy efficiency improvements have been achieved in 9% of our air conditioners.
			The devices that are in the most efficient class are preferred for the new office devices purchased	Reducing paper and cartridge usage by reducing at least 50% of printers on campus by 2025	The processes followed by the paper system in the enterprises were transferred to the electronic environment and the use of paper was reduced by 52 kg.
		Renewable Energy	With the biogas generated in the existing Wastewater Treatment Plant, 5,625 tons of steam was produced in 2021.	Steam produced by biogas amount will be 118,000 tons/years in 2025	The steam obtained from biogas was 1,863 tons. With the commissioning of our Advanced Biological Wastewater Treatment Plant in 2023, our biogas and steam production is expected to increase.
			Our electricity consumption in 2021 is 2,204,647 GJ.	Our renewable energy share target in total electricity consumption is as follows: - For the year 2023, it is 2.5% - For the year 2024, it is 4% - For the year 2030, it is 50%	Electricity consumption throughout 2022 is 2,119,384 GJ. Our renewable energy investments continue.

ENVIRONMENTAL SUSTAINABILITY GOALS

Main Title	Relevant SDGs	Topic Titles	Base Year - 2021	Goal	Current Situation - 2022
Climate Crisis & Carbon Management	 	Energy Efficiency	The steam required for the processes is obtained from coal and natural gas.	- By 2025, coal boilers will be deactivated and cogeneration trigeneration, etc. will be implemented - Completion of studies for alternatives and determination of road maps	Please click here to access our Strategic Carbon Roadmap
			Energy efficiency projects were carried out in our facilities in 2021, as in previous years.	In our energy resource consumption until 2025; Energy savings of 3,704 tons/year for water vapor, 74,000 sm³/year for natural gas, and 91,100,000 kWh/year for electricity	In our energy resource consumption in 2022; Energy savings of 34,849 tons/year for water vapor, 2,800,795 sm ³ /year for natural gas and 13,071,728 kWh/year for electricity were achieved.
			In 2021, energy efficiency studies were started within the scope of lightning.	By 2025, energy efficiency studies within the scope of lighting will be improved, saving 466,560 kWh of electricity and increasing the luminaire life by 85%.	In 2022, 10,844.32 kWh of electricity was saved thanks to the energy efficiency studies carried out within the scope of lighting.
	 	Carbon Management	*The carbon intensity which was 0.671 t CO₂-e/ton of production in 2019, by commissioning of new facilities with high energy efficiency and the energy efficiency studies in processes, a 25% improvement was achieved by reducing the production to 0.487 t CO₂-e/ton in 2021. <i>*Scope 1 and Scope 2 emissions are included in the carbon intensity calculation.</i>	We have updated our previously set carbon intensity target of 0.333 t-CO₂e/ton for the year 2030 to 0.21 t-CO₂e/ton. With this update, we aim to reduce our carbon intensity by 69% compared to 2019.	*The carbon intensity, which was 0.671 t-CO₂e/ton production in 2019, was reduced to 0.487 t-CO₂e/ton in 2022, with 27% improvement achieved with the commissioning of new energy efficient facilities and energy efficiency studies in the processes. <i>*Scope 1 and Scope 2 emissions are included in the carbon intensity calculation.</i>

ENVIRONMENTAL SUSTAINABILITY GOALS

Main Title	Relevant SDGs	Topic Titles	Base Year- 2021	Goal	Current Situation - 2022
Circular Economy	   	Resource Management	Styrofoam is one of the packaging materials used in the packaging of our POY product. 6,285 Styrofoam packages are used daily during the use of the product between businesses within the facility and during its transportation outside the facility.	Styrofoam recovery ; 25% inside SASA, 10% outside SASA until 2025.	Inside SASA, Styrofoam recovery is 35% in 2022.
			63,000 bobbins are used daily in POY production. 17% of the bobbins(11,000 units/day) used in the SASA facility are recycled.	Recovery of 5% of customer sourced bobbins and 25% of SASA in-plant bobbins by 2025	SASA in plant bobbin recovery is 50% in 2022.
			Big bags with a capacity of 1,000 kg are used in the product packaging of the SSP1 facility. The annual big bag usage amount is 13,500 ton.	By increasing big bag volumes, 10% annual packaging savings will be achieved in the enterprise until 2025.	Experimental studies aimed at increasing the volume of big bags for saving have been initiated throughout all DMT chip plants in 2022. Positive feedback has been received from customers during the experimental studies conducted in 2022.

ENVIRONMENTAL SUSTAINABILITY GOALS

Main Title	Relevant SDGs	Topic Titles	Base Year - 2021	Goal	Current Situation - 2022
Sustainable Product Management		Life Cycle Approach	LCA reporting, in which product life cycle environmental impacts are taken into account has been completed for our PBT and PTA products.	- Completion of LCA studies in 2022 for PET (DMT-derived), PET (PTA-derived), Fiber, POY and Yarn products - Conducting comparative LCA study for ADV14026 and ADV14026B products in 2023	The target of completing LCA studies for PET (DMT-derived), PET (PTA-derived), Fiber, POY and Yarn products in 2022 has been achieved.
		Sustainable Product Statements	Currently, SASA's documents regarding product management are; - OEKO - TEX Certificate - Declaration of Compliance for REACH 2021 - Declaration of compliance for food contract 2021 - Declaration of Absence Allergens 2021	- Ensuring 100% continuity of our existing documents - To have FSSC 22000 Food Safety Management System Certificate within the scope of SPC Production	Documents held by SASA regarding product management in 2022: - OEKO – TEX Certificate - Declaration of Compliance for REACH-Advanite 2022 - Declaration of Compliance for REACH-DMT 2022 - Declaration of Compliance for REACH-PET BG 2022 - Declaration of Compliance for REACH-SP88 2022 - Declaration on Vegan Statement
		Green Chemistry	Within the scope of our Green Chemistry projects, antimony-free biodegradable products are produced.	15% of total production to be antimony-free by 2025	In 2022, 10% of the total production was realized as antimony-free.
			In our process steps in SPC Special Polymer and Chips Production Facilities, an average of 6 tons/month of purified MEG (Monoethylene glycol) is used.	Saving 24 tons of pure MEG annually through optimization studies to be carried out until 2025	In 2022, 250,000 tons of MEG were purified and used. In addition, in 2022, 41 tons of heat transfer oil, 610 tons of TEG and 2,268 tons of purified BDO were purified and reused.
			Research is carried out to obtain the raw material used in our products from recycled PET chips.	By 2025, approximately 20% (66 thousand tons) of the raw material used in our production will be produced from recycled PET chips.	Research continues to obtain the raw material used in our production from recycled PET chips.
					

ENVIRONMENTAL SUSTAINABILITY GOALS

Main Title	Relevant SDGs	Topic Titles	Base Year	Goal	Current Situation
Environmental Responsibility	  	Water Management	The construction of the new wastewater treatment and recovery facility, designed with advanced treatment technologies has begun.	With the wastewater treatment plant and recycling plant under construction, 55-60% water recovery until 2025	Our Advanced Biological Wastewater Treatment Plant will be commissioned in 2023.
			The wastewater COD output value in the existing facility is below the local legislation limit. (240 mg/l)	By 2025, the effluent COD parameter should be below 150 mg/L in accordance with local legislations	Our COD discharge value in 2022 was approximately 62 mg/L, which is below the limit.
			The feasibility studies of the wastewater treatment and recovery facility, which is planned to meet the needs of new investments, have been completed and the construction has begun.	- Using Hubgrade AI technology to optimize the oxygen and nutrient amounts required by the wastewater treatment plant - In this way, 20-40% savings are achieved in N and P nutrients compared to the amount that would be consumed under normal conditions. - In addition, saving 1,255-2,330 mWh/year in electricity consumption amount to be used for oxygen supply.	Our Advanced Biological Wastewater Treatment Plant will be commissioned in 2023.

SOCIAL SUSTAINABILITY GOALS

Main Title	Relevant SDG	Topic Titles	Base Year - 2021	Goal	Current Situation - 2022
Rights & Equality & Ethics	    	Equal Representation at the OHS Committee	The minimum number of employee representatives is 16 according to Occupational Health and Safety Legislation. This number is currently set at 36 in SASA. Two of these 36 employee representatives are women.	The company plans to increase the number of female employee representatives to 5, and minimum 1 person from every strategic business unit.	In line with the Occupational Health and Safety Legislation, the minimum number of employee representatives within our company should be 16 people. This number is currently determined as 36 people. 5 of 36 employee representatives are women.
		Gender Equality	Ethics Policy, The company's Human Resources Policy and Human Rights Policy commits that there is no discrimination among SASA stakeholders. The percentage of female managers is 15.56% in 2021.	The goal is to create higher awareness about gender equality and to increase the percentage of female managers to 20% by 2025	With the Ethics Policy, Human Resources Policy and Human Rights Policy, it is committed that there will be absolutely no discrimination between SASA stakeholders. As of 2022, the rate of female managers is 18.18%.
		Employee Turnover	General employee turnover was 10.45% in 2021	- The goal is to reduce employee turnover by 2% every year, to bring it down to lower than 3% in 2025. - The goal is to develop a circular HR model	Employee circulation in 2022 is 9.06% in the general category. 3.49% are voluntary and rest is involuntary In order to reduce employee circulation; - Face-to-face group and individual meetings are held with employees, - Employee grievance mechanism is operated, suggestions are received and reported. - The coaching/mentoring system is implemented effectively.

SOCIAL SUSTAINABILITY GOALS

Main Title	Relevant SDG	Topic Titles	Base Year - 2021	Goal	Current Situation - 2022
Health&Safety	 	Lost Time Incident Rate	LTIR Rate for 2021: For permanent workers: 2.27 cases/200,000 worker-hours For contract workers: 5.10 cases/200,000 worker-hours	To reduce the number of work accidents by increasing the prevention and awareness activities and to reduce the LTIR rate below 1.	LTIR Rate for 2022: For permanent workers: 1.17 cases/200,000 worker-hours For contract workers: 1.67 cases/200,000 worker-hours The 10 Life-Saving Golden Rules Procedure was created and implemented in the field.
		Supplier Safety Program	The health and safety of the suppliers are under protection in line with the supplier security procedures. OHS training is given to the suppliers in the field and an examination is made and continuously audited within the scope of OHS. The 10 Life-Saving Golden Rules Procedure was created and implemented in the field.	Continuing the implementation of supplier security procedures and developing the supplier security program with the monitoring/tracking system	In line with supplier security procedures, the health and safety of the suppliers are protected. OHS training is given to the suppliers in the field and an examination is made and continuously audited within the scope of OHS. In 2022, 4,580 people were trained on Supplier and Visitor Security. The Contractor Safety and Performance Management Program has been published.

SOCIAL SUSTAINABILITY GOALS

Main Title	Relevant SDG	Topic Titles	Base Year - 2021	Goal	Current Situation - 2022
Corporate Social Responsibility & Corporation	     	Professional Education & Development	Professional qualification training was provided to 68 employees in 2021. In addition, 215 white-collar employees participated in organizations such as training and seminars in 2021 for the personal development of employees.	Ensuring that at least 5% of the employees receive professional qualification training certificates and 10% of them participate in events such as seminars, organizations and fairs every year.	In 2022, vocational development training was provided to 116 employees. Additionally, 327 of our white-collar employees participated in training, seminars, and other organizational activities to support their personal development. Furthermore, we supported the vocational education and development of our 410 blue-collar employees by assisting them in obtaining their master's certificates. The SASA ACADEMY training is planned to commence in 2023, while the ADASO ACADEMY training is planned to begin with providing Occupational Health and Safety training to 801 employees in the first stage.
		Diversity Program	Diversity Policy, Human Resources Policy and Mentoring Program [Coaching from experienced engineers to new engineers] are available.	The goal is to ensure that all new engineers joining the SASA family participate in the mentoring program	We have Diversity Policy, Human Resources Policy, and Board Diversity and Inclusion Policy in place. Through our Mentoring Program, where experienced engineers are paired with new engineers, we led coaching sessions and contributed to their professional development by bringing together 16 mentors with 48 new engineers in 2022.
		Talent Management Program	Within the scope of the Talent Program, the performance indicators of 53 people were followed up in 2021.	- The number of people whose performance indicators are monitored within the scope of the talent program is 120 until 2022 and this number is increased by at least 20% every year until 2025 - Starting performance indicator follow-ups of our blue-collar employees as of 2023	Within the scope of the Talent Program, the performance indicators of 540 people were followed up in 2022. While the number of people whose performance evaluation indicators were followed was targeted to be 120 by 2022, it was ensured to be 540.
		Social Responsibility Projects	SASA has, SASA in Campus, Incubator Center and İşkur Intern Training Program.	- With the SASA campus Project, supported by the Mehmet Erdemoğlu Foundation, it is aimed to offer scholarships to a minimum of 200 students every year - The goal is to continue with Incubator Center and with İşkur Intern Training Program	SASA Campus, Incubation Center, İşkur Trainee Training Program is available. Our other social responsibility projects can be found in the social sustainability section of the report.
		Social Responsibility Documentations	Preparations are being made for the establishment of the Social Responsibility Management System.	Establishment and certification of Social Responsibility Management System in 2023	Necessary preparations are being made for the establishment of the Social Responsibility Management System. Smeta Sedex 4 Batteries in Turkey: It is planned to be included in the scope of environmental and OHS together with 4-sided audit social responsibility issues.

CORPORATE SUSTAINABILITY GOALS

Main Title	Relevant SDG	Topic Titles	Base Year - 2021	Goal	Current Situation - 2022
Corporate Governance Structure	   	Representation of Women on the Board of Directors	In 2021, it was decided to include a female member of the SASA Board of Directors.	Increasing 25% of women ratio in the Board of Directors by 2025	As 2022, 2 Woman board member exists in SASA.
Stakeholders Engagement		To Identify Risks and Opportunities for Every Stakeholder	In 2020, SASA's responsibilities were determined for each stakeholder in line with the materiality analysis.	- Identifying risks and opportunities for each stakeholder - Updating the risk & opportunity analysis every year depending on the opinions of the stakeholders, sectoral changes and the development of SASA	Prioritised issues and SASA responsibilities were determined for each of our stakeholders with the survey conducted within the scope of our materiality analysis study at the end of 2021. In the survey study, feedback was received from a total of 223 employees and 163 stakeholders.
		Green Supplier Selection	Suppliers are evaluated for Quality, OHS and ethics with the initial evaluation and inspection forms for suppliers.	Until 2025, updating the social and environmental sustainability criteria with a Green Supplier selection perspective and considering the updated criteria in supplier selection	In the Supplier Preliminary Evaluation and Inspection Forms, suppliers are evaluated on issues such as Quality, OHS and Ethics. With the update made in 2022, sustainability criteria were added to the evaluation subjects.
		Green Purchasing	SASA has a Green Purchasing Policy for products and services.	- The inclusion of office products in the Green Purchasing Policy, the use of more enviro-friendly products in office supplies, and the preference of high-efficiency devices in new office devices - Implementation of integration of Green Purchasing criteria with SAP for all purchasing items until 2025	Efforts has been initiated to integrate the Green Purchasing criteria into the SAP program for purchasing requests created for all material purchases, including office supplies, until the end of 2023.

CORPORATE SUSTAINABILITY GOALS

Main Title	Relevant SDG	Topic Titles	Base Year - 2021	Goal	Current Situation - 2022
Stakeholder Engagement		NGO & Collaborations	Click here to reach the NGOs that became active members in 2021 and the collaborations made.	It is aimed to increase cooperation with NGOs, primarily in the sustainability business line.	NGOs to which active membership and collaborations were made in 2022 are given on page 23. UNGC cooperation announcement has been made on our website, and in line with our cooperation with UNGC, our Progress Report will be shared in a transparent manner in accordance with 10 principles between February and May every year. Preparations for participation in the Chemical Industrialists' Association continue.
Sustainability Governance	  	To form a Sustainability Committee and to ensure that this Committee manages SASA's Sustainability Activities	The Sustainability Committee was formed. The Committee began operations and workgroups were formed.	It is aimed to establish the Climate Change Working Group by the end of 2022 under the Early Detection of Risk Committee, which is affiliated to the Board of Directors.	Social Sustainability, Environmental Sustainability, Corporate Governance and Sustainable Products & Chemicals sub-working groups were established under the Sustainability Committee. In 2022, the Climate Change Working Group was established under the Early Detection of Risk Committee. Work has begun on establishing a system for monitoring sustainability studies via SAP or a special Database.
		Sustainability Reporting according to the International Standards	Sustainability Report in 2021 was developed to be more comprehensive according to GRI Standards.	- It is aimed to publish the sustainability report regularly every year in accordance with GRI standards. - In 2022, it is aimed to report in accordance with TCFD and Equator Principles for the Climate Change Risk Analysis of the PTA Facility. - Until 2025, it is aimed to make CDP and TCFD reports covering the entire facility.	The 2022 Sustainability Report has been prepared in accordance with the GRI Standard. In 2022, the TCFD Report was published in accordance with the Equator Principles for the Climate Change Risk Analysis of the PTA Facility. In 2022, it was included in the CDP (Carbon Disclosure Project) with Climate Change and Water Security Reporting.

CORPORATE SUSTAINABILITY GOALS

Ana Başlık	İlgili SKA	Konu Başlıkları	Baz Hedef Yılı 2021	Hedef	Mevcut Durum 2022
Sustainability Governance	  	ESG* Policies	The number of ESG policies has reached to 19 by the end of 2021.	By the end of 2022, it is aimed to establish other policies that take into account the interests of stakeholders, especially the Hazardous Substance Management and Political Participation Policy, and to make commitments and implement them in line with these policies.	The Diversity and Inclusion Policy of the Board of Directors was established in 2022, and the Political Participation Policy was added to the policies within the Ethics Rules and Policies. In 2022, the Hazardous Substances & Chemicals Policy and the Water Policy were put into effect. In 2022, the number of ESG Policies increased from 19 to 26. All of our ESG Policies are available on our website.
		Corporate Governance	Report for compliance with corporate governance principles 2021 has been published. Capital Markets of Turkey Sustainability Principles Compliance Framework 2021 was published.	By the end of 2025, The Corporate Governance Code is planned to be published. The goal is to identify and take the actions necessary to share the governance approach more transparently with stakeholders.	The 2022 Corporate Governance Principles Compliance Report has been published. 2022 SPK Sustainability Principles Harmonization Framework has been published. Our 2022 Corporate Governance Principles Approach has been published.

BUSINESS CONTINUITY

GRI 2-5

Business Continuity is a management process designed to ensure continuity of the business activities in case of contingent events such as unplanned events or emergencies. This process is designed to maintain uninterrupted continuity of the business activities, and ensure continuity of the customer services.

We have a comprehensive Business Continuity and Emergency and Contingency Plan in place to prevent emergencies and contingencies from adversely impacting usual business course, and to continue or resume our usual services during and/or after such incidents. This planning aims to ensure an acceptable level of business continuity of the critical processes in case of unavailability or shortage of the resources that may be caused due to any disruption, disaster or such other major service discontinuities.

During a natural disaster, considered as an emergency, our priority is to protect life and limb safety of our personnel and customers. Our Business Continuity planning includes not only assessments of risks relating to the continuity of business operations and processes, but also measures that will ensure preparedness against such risks.

In this respect, our IT system disaster recovery plan is one of the main elements that we pay maximum care to ensure business continuity. Any kind of records, valuable papers, information and data, stored physically or electronically, are classified and regularly reviewed by the relevant process supervisors. Our company follows an electronic redundancy policy for any information that are identified as valuable data as a result of this classification, as well as documents and data that must be retained for a certain period according to the legislation, and the valuable papers, in line with the plan under supervision of Emergency and Contingency Supervisor.

Scenario-based feedback tests are conducted annually to verify the preparedness level of the IT Systems in case of a disaster. These tests are repeated every week for important servers.

Our company actively implements the requirements of ISO 27001 Information Security Management System, and ISO 45001 Occupational Health and Safety Management System. In this context, our Business Continuity and Emergency Plan and Contingency Plan are subject to third-party independent audit regularly every year under the ISO standards. Also, our IT System Department undergoes third-party independent audit regularly.



RISK MANAGEMENT

RI 3-3

As a requirement of our corporate governance approach, we develop pre-plans for conducts and actions that may affect our procedures and strategies, making the processes manageable.

We understand that corporate risk management is of critical importance to ensure sustainability of our company activities, minimize the financial losses, protect our resources and maintain legal compliance. For this reason, our company carry out Corporate Risk Management in line with the requirements of ISO 31000/Risk Management-Principles and Guidelines Standard as well as our Corporate Risk Management Policy based on our long-standing knowledge and experience. With this policy, we provide the assurance for creation and effective implementation of Corporate Risk Management systems, while putting corporate risk management activities in place. [Click here](#) for SASA Corporate Risk Management Policy.

Early Detection of Risk Committee, directly reporting to Board Directors is responsible for early detecting and informing executive bodies and stakeholders of the risks in the activities, business processes and operations of the company. The purpose of the committee is to ensure early detection of the any strategic, operational, financial risk that may jeopardize existence, development and continuity of our company, and implementation of the necessary measures and solutions and management of the risk in this regard. This committee provides annual updates and progress reporting on the risk trends and the risk mitigation strategies, contributing to the accountability and transparency of our risk management actions.

RISK ASSESSMENT

A properly performed risk assessment is of vital importance for the success of a corporate risk management. Therefore, we identify, analyze, assess, prioritize, cure and monitor the risks properly and accurately in line with our risk assessment instruction. Our company classifies potential risks into four main categories: financial, operational, strategic and environmental. Environmental, social and governance risks, which also include the climate crisis risks are integrated and managed under these categories. ESG risk categories handled by our company are as follows:

- Business Disruption
- Employee Satisfaction
- International Impact
- Ethics and Code of Conduct
- Environmental Safety and Climate Crisis
- Technological Innovations
- Occupational Health and Safety
- Corruption and Fraud

With the risk impact assessment matrix we created in line with these categories, we identify we impact and likelihood ranges of the risks, while including the relevant business units in the process to take actions to minimize these risks.



RISK MANAGEMENT

GRI 3-3, GRI 207-1, GRI 207-2, GRI 207-3

CORPORATE RISK MANAGEMENT PROCESS

We secure the implementation of the necessary actions thanks to the Corporate Risk Management Procedures that we created in accordance with the Corporate Risk Management Policy. We put our risk management processes in place according to the risk management flow chart as identified in our corporate risk management procedure.

Our risk management process is based on the risk management flow chart defined in our corporate risk management procedure.

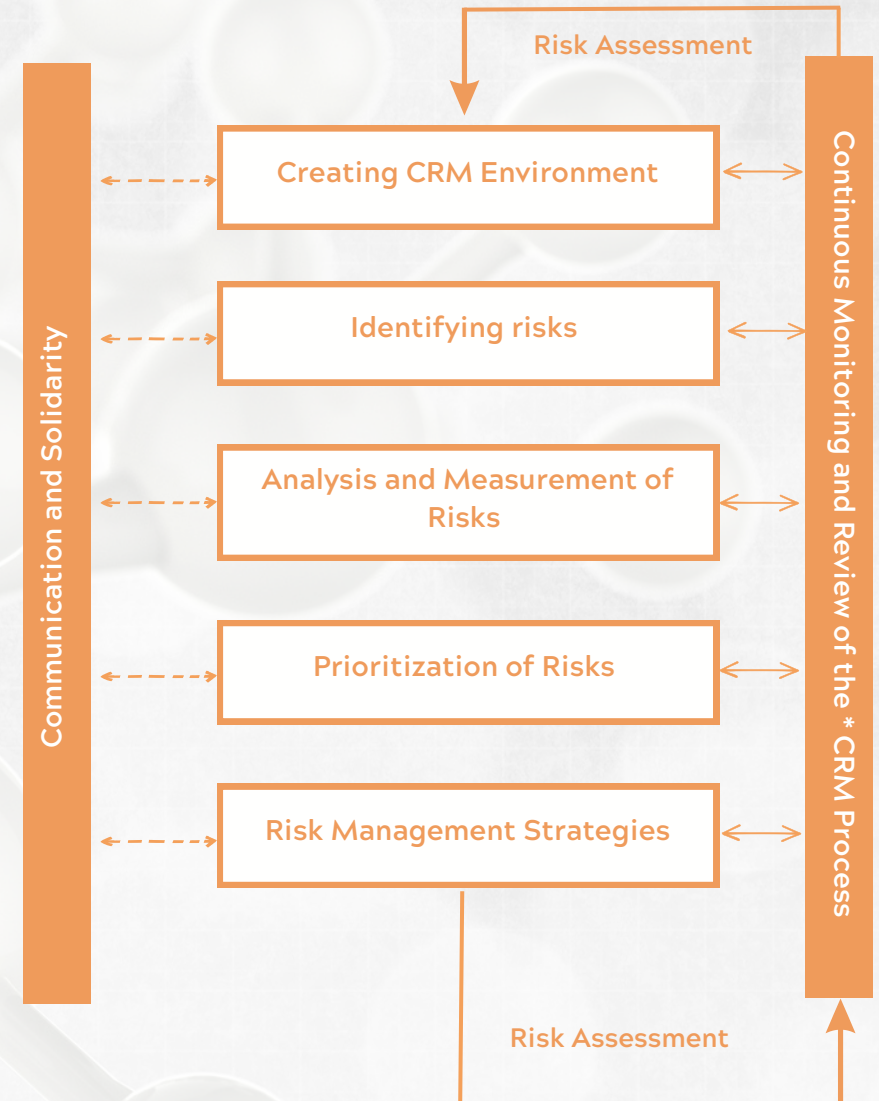
Our Corporate Risk Management Process:

- Minimizes any unexpected situations by observing the risk appetite of our company in the decisions relating to the investment, financial and business strategies,
- Maintains reduction of the losses and costs that may occur due to the risks,
- Facilitates sustainable growth thanks to income generation stability,
- Fosters reputation and reliability of our company driven by the social responsibility actions,
- Ensures continued legal compliance.

OUR TAX APPROACH

Established in 1966, quoted at Istanbul Stock Exchange, our company has been fulfilling its tax duties, diligently and transparently, in full compliance with the laws. As required by our principle of transparency, our financial statements are regularly audited by the certified public accountants as well as an independent third-party audit company in line with the laws. While we are making our financial and taxation activities publicly available via quarterly reports, we also disclose any new developments promptly via Public Disclosure Platform in this regard. Our company is only subject to the taxation and auditing under Turkish Tax Laws. Our tax strategy, tax decisions and approvals are subject to joint agreement between Senior Managers of our Company and the Certified Public Accountants. Senior Management Team pioneers the development a tax risk management culture and responsible for tax affairs in the company.

As SASA, we collaborate with tax authorities under the integrity, respect and fairness principles and make our tax returns publicly available. In addition, we aim to achieve "zero fine" in terms of inconsistencies with laws and regulations in both social and economic domains.



*CRM: Corporate Risk Management

RISK MANAGEMENT

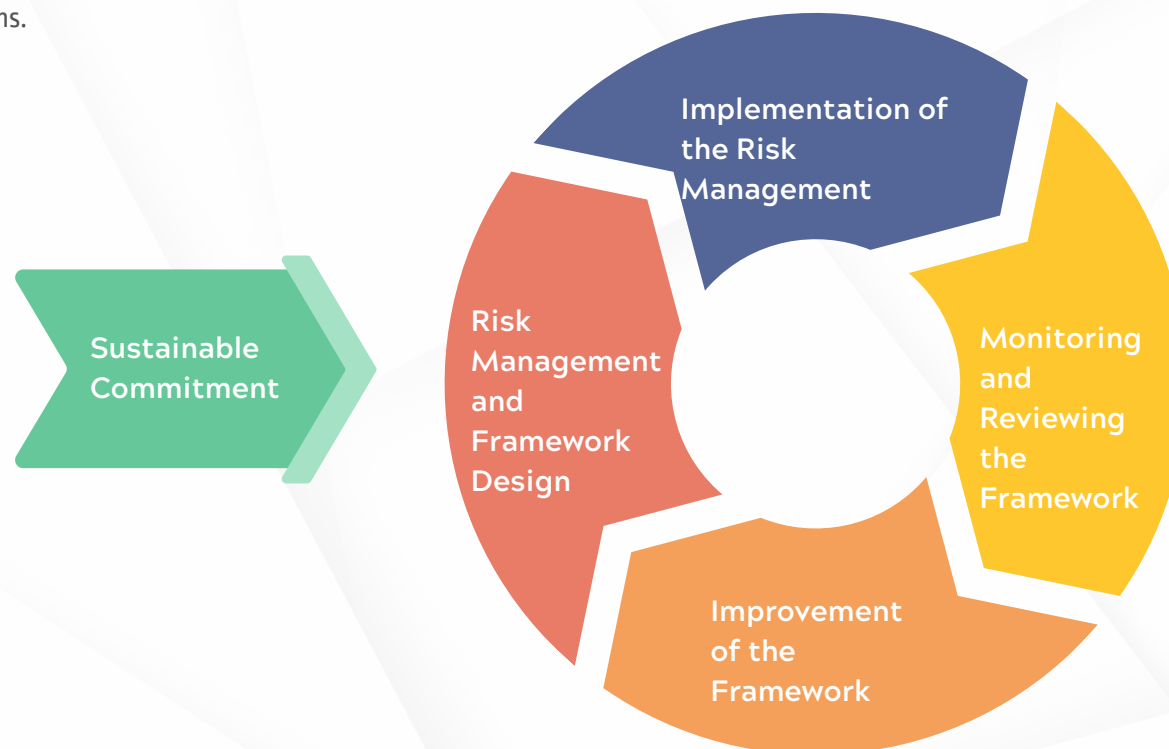
OUR CORPORATE RISK CYCLE

To ensure the continuity and sustainability of the risk management, we further our commitments at every level through strategic and careful planning as well as involving the senior management in the process. With our corporate risk cycle, we facilitate effectiveness of our risk management process while supporting the sustainability of our commitments.

We stay in touch with our stakeholders, taking their opinions into consideration, to ensure accuracy of the risk management framework.

Our company periodically measures the performance of our risk management and continuity of risk management using relevant indicators. Thus, we assess the effectiveness of the risk management framework.

Depending on the results of the monitoring and review, we adopt decisions on how to improve our risk management framework, policy and plan and accordingly design framework in line with these decisions.



BUSINESS ETHICS

GRI 2-15, GRI 2-16, GRI 2-23, GRI 2-24, GRI 2-25,
GRI 2-26, GRI 2-27, GRI 205-1, GRI 205-2

Our company is committed to uphold ethical values in its activities and set a highest-level standard for business ethics. Therefore, our company treats and embeds business ethics as an integral part of our business practices. Please [click here](#) to access our Business Ethics Rules Policy.

Senior Management of the Company is responsible for proper implementation of the SASA Code of Ethics, and development of a culture upholding said Code. SASA Code of Ethics and all related policies are reviewed, updated and documented by Human Resources and Industrial Relations Department. This documents, then, are signed off by Vice General Director, and announced across the organization.

When an investigation is required for an ethical violation, SASA Ethics Committee Advisor forms a 3-member Ethics Committee composed of himself/herself, Manager of Human Resources and Industrial Relations, and Audit Manager. Ethics Committee Advisor presides the Committee. Committee convenes with presence of Chairperson and at least one member, adopts decisions on the basis of unanimity.

Ethics Committee functions under the following principles:

- Maintains secrecy and confidentiality of the identity of complainants and/or whistleblowers. Conducts investigations in complete secrecy and confidentiality.
- Has power to demand all information, document and evidence relating to the investigation directly from the relevant units.
- Documents the investigation process from the start to the end. Files all information, evidence and documents along with the investigation reports. Chairperson and members are required to sign the investigation reports.
- Conducts the investigation using the fastest methods with a view to conclude it in the quickest way. Decisions adopted by the committee are implemented promptly.
- Informs the relevant units and authorities of the results of investigation. Chairperson and members of Committee act independently and without under influence of their superior managers and organizational hierarchy while doing their duties in this regard. No coercion or inducement to influence their decision-making process is tolerated/permitted.
- Committee, if finds necessary, may seek the opinion of the experts, and may not violate the confidentiality principles during an investigation.

Our Company upholds ethical values as a vital and key driver for a sustainable business model. Our ethical values are built upon the principles such as integrity, transparency, respect, fair conduct, respect to human rights and environmental sensitivity. Firmly embracing these values, they are made a responsibility of everyone in our company, including employees, managers and supply chain partners.

All members of our Board of Directors and employees have received training on anti-corruption measures. No corruption cases have been identified in 2022.

In addition, our company remains neutral towards all political views and organizations in Turkey, and does not provide any financial support. To access our Political Participation Policy, please [click here](#).

To access our policies that support our Business Ethics approach, please [click here](#).

BUSINESS ETHICS

GRI 2-23, GRI 2-24, GRI 2-25, GRI 2-26, GRI 2-27,
GRI 205-1, GRI 205-2

In addition to our legal responsibilities, we take care to fulfill our responsibilities listed below towards our customers, employees, shareholders, suppliers and business partners, competitors, society, humanity, and the name of SASA. Also, we develop our ethical norms in line with our stakeholder's feedback.

OUR LEGAL RESPONSIBILITIES

We carry out all our activities and operations under the laws of the Republic of Turkey and international law as well as provide timely, accurate, and comprehensible information to regulatory agencies and institutions. While carrying out all our activities and operations, we stand equally distant from all public institutions and organizations, administrative organizations, non-governmental organizations, and political parties without any expectation of interest and fulfill our obligations in accordance with this responsibility.

OUR RESPONSIBILITIES TOWARDS OUR PARTNERS

We aim for sustainable profitability by giving priority to the continuity of our company and in line with the goal of creating value for our partners. We act within the framework of financial discipline and accountability, and we manage our company's resources and assets as well as our working time with an awareness of efficiency and savings. We pay attention to investments that increase our competitiveness and have growth potential. In our public statements, we provide timely, accurate, complete, and comprehensible information about our financial statements, strategies, investments, and risk profile.

OUR RESPONSIBILITIES TOWARDS OUR CUSTOMERS

We work with a proactive approach focused on customer satisfaction, responding to the needs and demands of our customers in the shortest time and in the most correct way. We offer our services on time and on the terms, we promise; we approach our customers based on respect, honor, fairness, equality, and courtesy.

OUR RESPONSIBILITIES TOWARDS OUR SUPPLIERS/BUSINESS PARTNERS:

We act fairly and respectfully, as expected from a good customer, and show due diligence to fulfill our obligations on time. We carefully protect the confidential information of the individuals and organizations we work with, as well as our business partners.

OUR RESPONSIBILITIES TOWARDS OUR EMPLOYEES

We ensure that our employees use their personal rights completely and properly. We approach our employees in an honest and fair manner and commit to them a nondiscriminatory, safe, and healthy working environment. We make the necessary efforts for the personal development of our employees, support them to volunteer in appropriate social activities, and respect the balance between their business and private life.

OUR RESPONSIBILITIES TOWARDS OUR COMPETITORS

We effectively compete only in legal and ethical fields, and we avoid unfair competition. Our company competes under the conditions stipulated by market competition and does not engage in anti-trust or monopoly activities.

OUR RESPONSIBILITIES TOWARDS SOCIETY AND HUMANITY

Protection of democracy, human rights, the environment, education and charity activities, and the elimination of crime and corruption are very important to us.

OUR RESPONSIBILITIES AS SASA

Our business partners, customers, and other stakeholders rely on us for our professional competence and honesty. We try to keep our reputation at the highest level. We offer our services in accordance with our company policies, professional standards, commitments, and ethical rules; we make self-sacrifice to fulfill our obligations. We take care to provide services in areas that we believe we are and will be professionally competent, and we aim to collaborate with customers, business partners, and employees who meet the criteria of accuracy and legitimacy. We do not collaborate with those who damage public morality and harm the environment and public health. In areas where the public and the audience think that we speak on behalf of our company, we express only our Company's views, not our own.



STAKEHOLDER ENGAGEMENT

From an ethical perspective, and with the goal of value creation, we, as SASA, take stakeholder engagement seriously, driven by our business model, fostering constant interaction with our stakeholders. Our activities, by design, are responsive to the interests, expectations and needs of all our stakeholders, therefore, we take their opinions into consideration while defining our goals and strategies. As a result, we seize the opportunity to enrich our value chain with valuable contributions of our stakeholders. This is why we apply various methods to boost our interaction with our stakeholders, ensuring their engagement. To get insight on the expectations of our stakeholders and engage them in our sustainability related efforts, we conduct periodical surveys.

Our Stakeholder Engagement Matrix is created in consultation with relevant units and stakeholder groups under the leadership of Sustainability Committee. Stakeholder Engagement Matrix, created by Sustainability Committee and presented to Senior Management and Board Members are updated in line with their feedbacks, and enclosed with the 2022 SASA Sustainability Report.

As the first step in development of our Stakeholder Engagement Matrix, we identified our stakeholder groups. Having also sought their opinions while identifying our priority topics, our stakeholder groups are identified by taking account of the groups they interact with in terms of SASA's product, service, project and other processes. We provided in our Stakeholder Engagement Matrix, the our stakeholder engagement approach on the basis of type and stakeholder group, and their contributions to improvement of our sustainability activities. In addition, we identified the important topics that are relevant to each of our stakeholders, including the sustainability reporting process, and demonstrated our responsibilities in these topics.

OUR STAKEHOLDER ENGAGEMENT TABLE

Our Stakeholder Groups	Selection Process of Our Stakeholder Groups	Our Relationship with the Stakeholder	Important Issues & Our Responsibilities in Important Issues
Employees	We care about the proactive feedback provided to us by all our colleagues to make our working system and the processes we create more sustainable.	Face-to-face and online interviews, periodic surveys, employee performance and satisfaction evaluations with the request of our employees, Online (SASA website provides 24/7 feedback) and on-site wish/complaint/suggestion boxes, social media channels, and periodic training programs.	Monitoring and improvement of employee rights, ensuring occupational health and safety, retaining employees; improving employee engagement; timely and complete payment of employee wages, improving the complaint mechanism and following up the feedback, career development, and talent management, providing social benefits, protecting ethical values, emphasizing diversity, creating a sense of belonging to the employee, carrying out sustainability studies.
Customers	With our responsible production and service approach, we create the product and service processes that our customers need, we improve our products and services in line with the feedback they provide regarding these processes.	Holding face-to-face and online meetings periodically and in line with the demands of our customers, SASA customer service channel, industry meetings, periodic customer satisfaction surveys, annual SASA sustainability and activity reports, social media channels.	Ensuring product safety & quality and improving them in line with consumer expectations, ensuring the environmental, social, and economic sustainability of products and service processes, increasing product circulation, climate change; increasing the use of renewable energy, and observing energy efficiency in processes, providing ethical and human rights compliant services.

STAKEHOLDER ENGAGEMENT

Our Stakeholder Groups	Selection Process of Our Stakeholder Groups	Our Relationship with the Stakeholder	Important Issues & Our Responsibilities in Important Issues
Shareholders	Since we are a publicly traded company, shareholders are not evaluated by an election or by an application. The shares of the company can be bought and sold on the stock exchange within the framework of the communiqués of the Capital Markets Board. Our shareholders' views on our sustainability performance are important for our sustainable growth.	Annual Sustainability and Activity Reports, ESG Risk Rating results, periodically published financial statements, Public Disclosure Platform (PDP) disclosures and reports; media releases, social media announcements, and SASA website.	Providing timely, accurate, complete, and comprehensible information about financial statements, strategies, investments, and risk profiles; publishing reports giving information about the shareholders publicly on the PDP, improving the sustainability index by improving the sustainability performance, informing all shareholders about the activities carried out on sustainability issues in a transparent manner with the sustainability report.
Suppliers	We have a variety of suppliers in terms of their size, geography, product, and service types. Our supplier selection process is carried out using our Supplier Approval Form including supplier procedures, social and environmental issues, our Supplier Code of Conduct, and our Supplier Diversity Policy	Periodic supplier surveys, periodic environmental, social, product quality & safety audits, periodic supplier reporting, supplier tracking systems, SASA website (wish, complaint, and suggestion box), and social media channels.	Monitoring and controlling the safety and quality of the supplied products; encouraging suppliers to increase their ESG targets, reinforcing supplier relations in line with feedback, attaching importance to supplier diversity, implementing the SASA Green Procurement Policy and commitments.
Media	We present our activities to all our stakeholders through local, national, and international communication channels (newspapers, magazines, social media channels, television, etc.). The power of the media is important to announce our sustainability activities and new investments to all our stakeholders.	Press releases, interviews, press statements, SASA website, and social media posts. Public Disclosure Platform (PDP) announcements.	Conveying accurate and reliable information on new investments and other important developments to all stakeholders transparently.
Private Sector	We develop our strategies and contribute to our sustainable growth through cooperation, information sharing, and partnerships with private institutions and organizations in the same activity and geographical area together with SASA.	Sharing common ecosystem and industrial space, using the natural resources together, establishing sector and regional partnerships, meetings with the private sector, providing cooperation in disaster and emergency situations.	Contributing to sustainability with conscious production and consumption that respects the common ecosystem and other producers, transfer of knowledge and experience through the industry and regional partnerships and ESG issues, contributing through cooperation in disaster and emergency situations, and contributing to industrial development with project partnerships.
Certification Bodies	We take into account the accreditation scope of the certification bodies and our company's ESG requirements.	Audits and ratings (ISO, Ecovadis, Sustainalytics, Refinitiv, etc.), training programs, audit reports, in-process meetings, and outcome evaluation meetings.	Sharing relevant information in an accountable and transparent manner during the audit processes in accordance with the basic principles of corporate governance, evaluation of process outputs that can contribute to the sustainability of the company, setting sustainability targets, and developing strategies based on the results of ESG ratings

STAKEHOLDER ENGAGEMENT

Our Stakeholder Groups	Selection Process of Our Stakeholder Groups	Our Relationship with the Stakeholder	Important Issues & Our Responsibilities in Important Issues
Government and Public Agencies	With our power in the domestic and international markets, we establish relationships with the governments and public agencies at the global level. We determine our sustainability strategies and goals at the global level by following the work and regulations of countries and national unions.	Face-to-face and online meetings, public institutions' platforms, local and international audits, sustainability and activity reports.	Full implementation of national and international laws, regulations, and standards in all operations contributing to the UN SDGs through our ESG strategies and objectives; acknowledging and undertaking all articles of the SASA Human Rights Policy and the UN Global Compact, the European Convention on Human Rights, the Universal Declaration of Human Rights, the OECD Guidelines for Multinational Enterprises, and the International Labor Organization (ILO) Declaration on Social Justice for a Fair Globalization.
Industry and Association Groups	We share our experiences on the industry agenda, sustainable product management, corporate governance, and climate change with the industry and association groups we collaborate with, as well as benefit from the knowledge of these organizations.	Periodic face-to-face and online industry and association meetings, seminars, webinars, joint projects, training programs.	Being a member of important industry and association groups related to the industry and production area and contributing to risk management by participating in the meetings of these organizations and sharing industrial experience and opinions, developing a sustainability perspective, and following up trends by participating in seminars and training programs on ESG issues provided by relevant industry associations and groups.
Non-Governmental Organizations	Social responsibility projects that are carried out together with NonGovernmental Organizations and these organizations are important in terms of ensuring the social sustainability of our company. We take into account the contributions we will make to the UN SDGs in our cooperation with non-governmental organizations.	Financial and moral support to the activities of non-governmental organizations; project partnerships; periodic online and face-to-face meetings.	Charity donations; supporting the activities of non-governmental organizations for the benefit of society, creating public awareness, contributing to raising public awareness on human rights, ethics, diversity, etc.
Local Communities	For SASA, the local community is the neighborhoods and villages where our production and storage sites are located. We make significant contributions to both the development of the local community and our business continuity by benefiting from the contributions of the local people in our activities, raw material supply, and employment needs. We prioritize not to damage the flora and fauna in our new investments and current field of activity.	Labor, raw material supply, SASA website (wish, complaint, and suggestion box), wish and suggestion posters, meetings with the headmen of the neighborhoods in the immediate vicinity, meetings with the local community, EIA and ESIA reports, and sustainability reports.	Creating positive impact and value in the local community where we operate; providing employment opportunities for local people; supporting local suppliers, and farmers and improving their livelihoods, ensuring business continuity, making local social responsibility projects, sensitivity to the local ecosystem, respect for local life, protecting the rights of minorities, collaborations for emergency and disaster.
Academy and Universities	Collaborations are made by taking into account the demands of universities and the issues that our company can provide organizational guidance or that are on our agenda. These collaborations are carried out by transferring the knowledge and experience of our expert staff to the students, contributing materially and morally to academic activities, adding a young perspective to SASA with internship programs, and increasing our sustainable product range through R&D project partnerships, etc.	Sponsorship for the events at universities, coaching and mentoring university students, sharing SASA experiences and activities with students at seminars and career organizations in universities, project management and consulting, sustainable product management projects.	Sponsorship for the events at universities, coaching and mentoring university students, sharing SASA experiences and activities with students at seminars and summits at universities, project management and consulting, supporting university R&D activities by providing knowledge and physical space (SASA R&D center and laboratories), developing sustainable product management through R&D activities within SASA, contributing to the literature.

A lush green forest with a large white number 3 overlaid on a semi-transparent green rectangle. The forest is dense with various types of trees, including tall evergreens and deciduous trees with vibrant green leaves. Sunlight filters through the canopy, creating a dappled light effect on the forest floor. The overall scene is serene and natural.

3

ENVIRONMENTAL
MANAGEMENT

ENVIRONMENTAL MANAGEMENT APPROACH

GRI 3-3



Our goal is to be a leader and develop constantly our environmental performance in cooperation with our stakeholders in the polyester and chemical industries in line with the UN Sustainable Development Goals and circular economy.

Please click [here](#) to access our Environmental Policy we developed to this end.

We monitor the environmental processes with a lifecycle approach in all production activities at our plants, taking necessary steps to not only reduce waste and prevent pollution but also to preserve natural resources. In this context, we conduct Life Cycle Assessment (LCA) on our products. Also, we carry out efforts for waste minimization, efficient use of resources, chemical recovery as well as energy efficiency, and recovery in line with the European Green Deal (EGD).

As SASA, we also follow not only local and international environmental legislation but also special standards such as IFC, Equator principles. We comply with the requirements of the ISO 14001 Environmental Management System and review our system constantly. We report our environmental impacts in our annual Sustainability Reports. All our environmental engineers play a proactive role in applying and monitoring the legal processes. In 2022, our company was not subject to any violation, fine and/or sanction for its activities within the scope of Environmental Law and related Regulations.

Throughout the year, SASA has paid approximately 686,938,112 TL to capital projects aimed at protecting the environment. Environmental expenditures encompass capital outlays for wastewater management, investment in a new wastewater treatment plant, biodiversity initiatives, Environmental Impact Assessments (EIA), reporting, emission reduction, measurement devices, waste reduction, environmental consultancy, environmental management system, and similar items.

SASA has also set aside 39 million TL to cover future environmental liabilities for 2023.

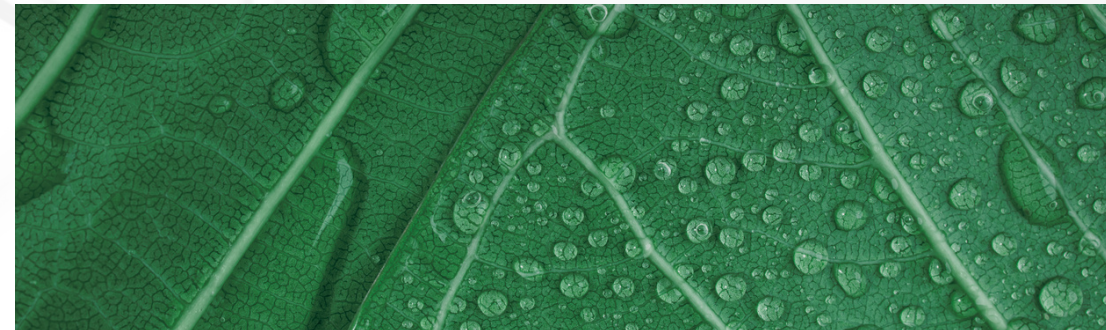
Environmental Working Group

Our Environmental Working Group composed of 3 leader and 12 members undertakes works under following areas:

- Carbon Roadmap
- Energy Efficiency
- Renewable Energy
- Digitalization applications
- Water and waste water management
- Waste minimization
- Biodiversity works
- Developing projects for goals and strategies related to climate change
- Circular economy applications

Working Group completed our carbon roadmap, and set our goals during 2022. Group also set the goals up to 2050 for wastewater treatment facility. Actions were taken in line with the gap analysis and our CDP and TCFD reporting. Group also defined and started to implement the necessary actions relating to emission, waste management, and biodiversity.

In order to create environmental value within the company and raise awareness among our employees about environmental matters, we conducted a total of 446 person-hours of environmental training in the year 2022.



CLIMATE MANAGEMENT

GRI 3-3



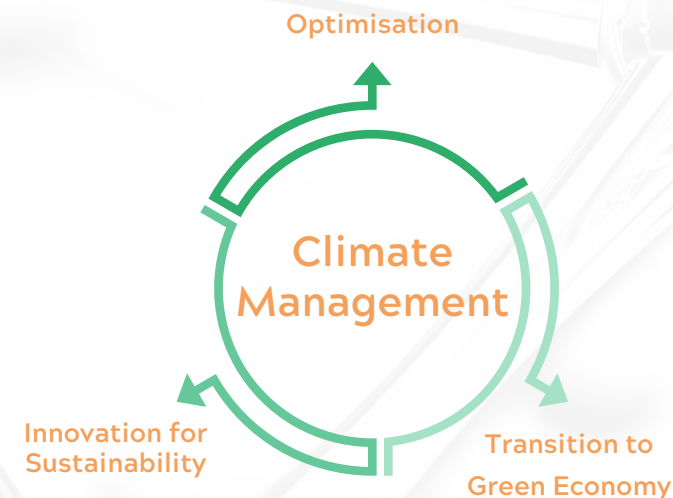
Fighting with the impacts of climate change is a critical pressing issue to ensure a healthy and safe life for next generations, which is therefore a priority topic for our company. This is why SASA places importance to sustainable business practices to contribute to the fight with climate change, investing to reduce and minimize our environmental impacts.

Formed under our Early Detection of Risk Committee, our Climate Change Work Group discusses the topics such as Carbon Management, Water Management and Drought, Climate Change Management, TCFD (Task Force on Climate-Related Financial Disclosures) Reporting and Bio-diversity Efforts, identifying the risks in advance and taking necessary actions and measures.

The emission control is ensured via calculation of greenhouse gas emissions from fuel combustion and large-volume organic chemical production according to the Regulation on the Greenhouse Emission Monitoring. At the same time, we publish our Scope 1-Greenhouse Gas Emission report annually, which is verified by the TURKAK accredited verifiers and presented to Ministry of Environment, Urbanization and Climate Change.

We make and report calculation of greenhouse gas emissions, in any category, from operations of our all plants and facilities, in accordance with ISO 14064-1 2018 Standard. Also, we ensure our calculations verified by a third-party independent body. Please [click here](#) to access our ISO Certificates.

Our strategy for battling and adapting to climate change; It is based on 3 main themes in line with the target we set to reduce our carbon emissions:



Optimisation:

- **Lighting:** By 2025, we aim to improve energy efficiency studies within the scope of lighting, to save 466,560 kWh of electricity and to increase the luminaire life by 85%.
- **Water Usage:** In order to reduce our water consumption, we have developed a 55-60% water recovery project with the PTA facility, which is planned to be commissioned in 2023.
- **Digitalization:** We integrate Industry 4.0 applications into all our processes, [Click](#) here to review our work in this direction.
- **Green Chemistry Practices:** We optimize our resource use by developing projects in line with the principles of "Waste Prevention" and "Atomic Economy" of green chemistry. [Click](#) to review our green chemistry applications.

CLIMATE MANAGEMENT

GRI 3-3, GRI 305-4



Transition to Green Economy:

- **Fuel Change:** We aim to end the use of coal in the entire facility by 2025, and we base our new investments on practices such as natural gas and energy recovery from waste heat.
- **Use of Renewable Energy:** We aim to increase our green electricity use with our solar energy investments, and we conduct feasibility studies on the use of biomass as an alternative fuel.
- **Afforestation:** Within the scope of the protocol signed with the T.C General Directorate of Forestry; 600,000 saplings were planted in the SASA Memorial Forest on a total of 500 hectares of land, 200 hectares in Adana Aladağ District and 300 hectares in Osmaniye Kadirli district, together with SASA Employees and Forestry Operation employees for our forests burned.

Innovation for Sustainability:

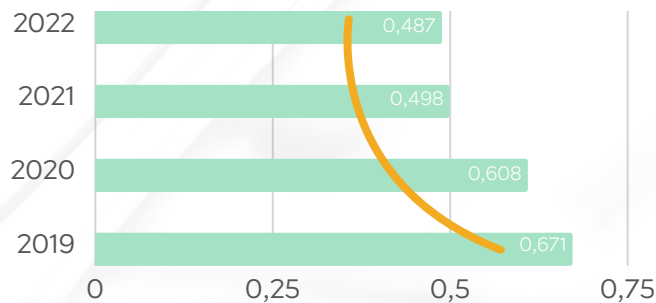
- **Use of Renewable Raw Materials:** In addition to our biodegradable polymer groups in our portfolio, our R&D studies on the use of biobased raw materials continue.

We are aware of the risks instigated by climate change, and accordingly published our TCFD report for SASA PTA Production Plant in 2022, and aim at publishing our TCFD Report covering our entire plants and facilities in 2023. Please click [here](#) to access the TCFD Report for SASA PTA Production Plant.

TCFD Report for SASA PTA Production Plant has defined the physical and transition risks, where the consolidated impact of these risks are assessed in accordance with the TCFD, EP4 and Equator Principles Climate Change Risk Analysis standards. On the basis of these standards, transition risks, acute and chronic physical risks are discussed in the risk assessment matrices.

We feel the pride of achieving the rating of "B" with our Climate Change report developed for CDP for the first time in this year. This rating shows various actions we have put in place to contribute the fight with climate change while helping us see the areas in our sustainability strategy that require improvement. Click [here](#) for CDP Climate Change Report.

Total greenhouse gas emission intensity (tCO₂e/ton production)



Compared to 2019, we achieved a 27% reduction in carbon intensity in 2022

CLIMATE MANAGEMENT

GRI 3-3



RISK DEFINITIONS DUE TO CLIMATE CHANGE

The devastating effects of climatic conditions should also be evaluated from a social point of view. The risks to be faced with the climate, social and economic impacts of the SASA production facilities are examined under two main headings as physical and transitional.

Physical Risks

Climate risks are examined under two main headings as physical risks and chronic risks. Acute risks are those that show the immediate effect of a climate event. Examples of these events are flash floods, storms, and heat waves. Chronic risks, on the other hand, include climatic events, the effects of which can be felt over many years.

Transition Risks

The organization's work towards a low-carbon and greener future is associated with transition risks. These risks include policy, technology, market, reputational and legal risks. Transition risks are interrelated and affect the financial condition and operational processes of the organization.

Term Definitions

Short-term risks: It is defined as the risks that have the potential to occur in 3 years or less.

Medium-term risks: These are the risks that have the potential to occur in 3 to 10 years annual time frame and have a significant impact on the strategy and financial results of the company.

Long-term risks: It is the period used to define the risks that may arise in the company in 10 years or more.

Global climate events affect every part of our organization and have economic consequences. Transition risks for our Production Facilities are divided into climate-based sub-categories and risk definitions are made in line with TCFD recommendations.

Politics and Legal

The impact of climate policies on SASA is unpredictable, so accurate risk analyzes are essential. Laws, emission limits and land use should be reviewed regularly. As a company, we closely monitor the impact of climate change on policies and laws.

Technology

New technologies can affect every aspect of the facility, so the technology-related risks of our new facility should be considered. In order to compete, goods and services that produce less emissions must be identified, and inappropriate use of new technologies can be considered a technology transition risk due to the lack of qualified personnel. The expenses of the equipment and facilities to be installed are also a risk factor.

Market

PTA Production Facility has market risks related to climate change. These risks can be listed as changes in customer expectations, uncertainties in the markets and high raw material costs.

Reputation

One of the transition risks is reputation risk. It is a type of risk that may arise due to our stakeholders' concerns about SASA and their sensitivity to the environment and that may damage the brand value of the company.

CLIMATE MANAGEMENT

GRI 3-3



RISK DEFINITIONS DUE TO CLIMATE CHANGE

TRANSITION RISKS	RISKS RELATED TO CLIMATE	DEFINITIONS OF CLIMATE RISKS	TERM
	Politics and Legal	- Greenhouse gas emission costs expected to increase over the years for the PTA plant - Reducing pollutant thresholds over the years - Transition to low carbon economy as SASA - ETS system to be valid in Turkey after 2023 - Implementation of CBAM in Turkey after 2025	Short-Medium
	Technology	- Change in product and technology usage priorities - Replacing plant equipment with equipment that produces less emissions (for example, switching to IE3 and IE4 efficient power systems). In addition, the PTA production facility will meet its own electricity with waste gas, biogas and solar investments.	Medium-Long
	Market	- Negative changes in precipitation regimes in the region, together with the decreasing water level, may cause a decrease in HEPP electricity generation efficiencies. - Decreased production capacity as a result of disasters that may occur due to climate change - Increasing demands and prioritization of credit institutions - Problems that may arise in the supply of raw materials due to climate change - Fluctuations in PTA production and capacity on a global scale	Short-Medium
	Reputation	- Challenges in setting a Science-Based Target for PTA facility specific GHG emissions - Environmental accidents caused by extreme weather events	Long

PHYSICAL RISKS (ACUTE)	RISKS RELATED TO CLIMATE	DEFINITIONS OF CLIMATE RISKS	TERM
	Flood	Flood risk as a result of sudden changes in precipitation regimes or excessive precipitation	Short-Medium
	Fire	Facility fires and related accidents at the PTA facility due to excessively high temperature	Short-Medium-Long
	Forest fires	Forest fire in the area where PTA production facility is planned to be established	Short-Medium-Long
	Extreme weather events	Experiencing extreme weather events (storms, hurricanes, heavy rains, icing, etc.)	Short-Medium-Long
PHYSICAL RISKS (CHRONIC)	Higher temperatures	Continuous increase in the number of extremely hot days observed in the facility area	Medium-Long
	Downfall in groundwater level	Groundwater level drop due to excessive water use during construction and operation	Medium-Long
	Sea level rise	As a result of the melting of the glaciers, the sea level rises in the Mediterranean, where the facility is located.	Long
	Destruction of Biodiversity	Negative impact of climate risks on flora and fauna in the facility area	Medium-Long
	Long-term high temperatures	Experiencing extreme temperatures in the long term, considering the RCP 8.5 scenario	Long
	Long term droughts	Experiencing extreme temperatures, less precipitation and droughts, especially in the Mediterranean region	Long
	Changes in rainfall regime	The impact of long-term precipitation regimes on groundwater and climate, which is generally in a downward trend	Long

CLIMATE MANAGEMENT

GRI 3-3



RISK DEFINITIONS RELATED TO CLIMATE CHANGE

Climate-Related Risks and their financial impacts, defined within the scope of our TCFD Report, are overseen by our Climate Change Working Group. Strategic action plans are created as a result of monitoring risks and impacts and necessary actions are taken. In order to manage our climate and risks more effectively and to develop our adaptation strategy, we updated our carbon targets this year, determined our strategic carbon roadmap, and started feasibility studies for relevant investments.

Click [here](#) to access the SASA PTA Production Facility TCFD Report - Risk Assessment Tables.

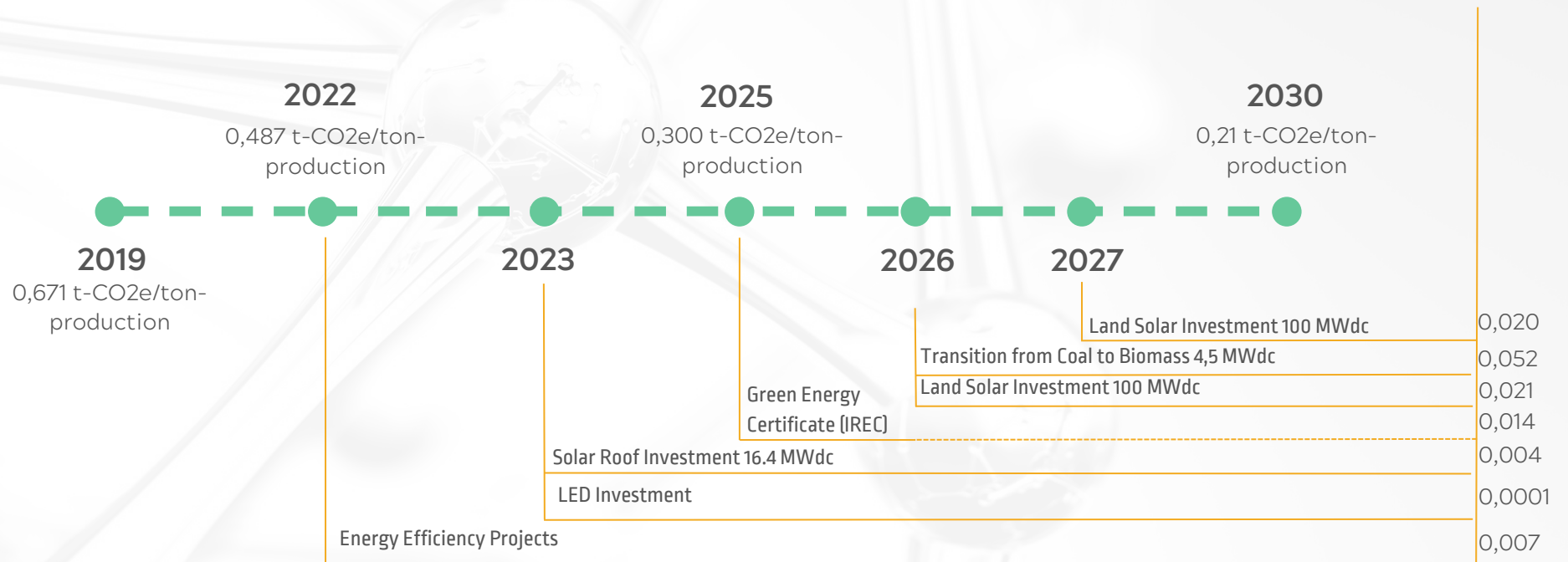
Click [here](#) to reach our Environmentally Friendly Projects.

STRATEGICAL CARBON ROADMAP

Our carbon intensity target for 2030: 0.21 tons of CO₂e/ton production

“69% reduction in 2030 compared to 2019 Base Year”

Annual reduction in Emission Intensity (tCO₂e/ton-production)



CLIMATE MANAGEMENT

GRI 3-3, GRI 305-6



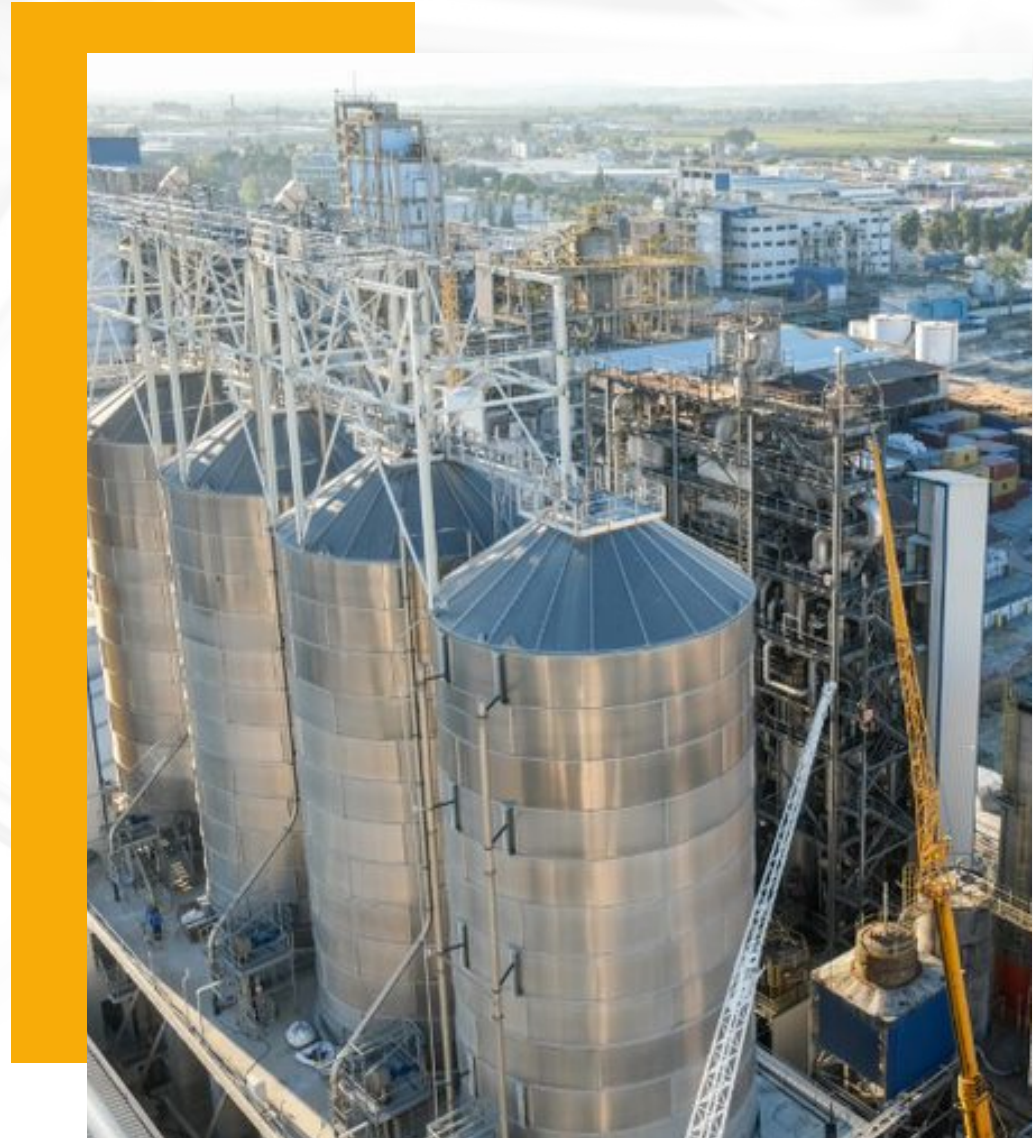
MANAGEMENT OF NON-GHG EMISSIONS

We carry out online monitoring at five of our emission sources thanks to Continuous Emission Monitoring Systems (CEMS) installed at our production plant, through which we transfer data relating to CO, NOx, VOC and dust emissions of our flues instantly to the TC Ministry of Environment, Urbanisation and Climate Change. Our Plants do not produce CFC gas emissions which depletes the ozone layers.

Air quality modelling is being made for emissions from our plants, according to which records of cumulative impacts are kept.

Our SOx Emission Reduction Target
by 2021 Base Year:

“By 2030
50% reduction”



ENERGY MANAGEMENT

GRI 3-3, GRI 302-3



Under the leadership of our Energy Management Committee and Energy Policy, we exercise care in our energy consumption and efficiency, aiming to improve our energy performance across all our processes.

Please click [here](#) to access our Energy Policy we developed for these purposes.

We monitor and keep track of our energy consumption routinely in daily, monthly and yearly intervals at our facilities that have ISO 50001 Energy Management System certificate. We update "SASA Energy Map" every year and identify energy consumption points while developing energy efficiency projects. We carry out works on co-generation and trigeneration systems for energy efficiency, targeting to minimize our energy density during our production processes. In addition, we exercise efforts to reduce our carbon footprint in line with the Sustainable Development Goals (SDGs). Please [click here](#) to access our ISO Certificates.

Our new wastewater treatment plants to be commissioned during 2023 will provide both energy-saving and environment-friendly processes thanks to the state-of-the-art technology. This cutting-edge technology will automatically calculate and feed necessary oxygen and nutrient volumes into the system. In this way, we aim to achieve electricity savings from 1,255 mWh to 2,330 mWh every year until 2025. Thanks to this innovative technology, we target at creating positive impacts on both costs and environment.

Our goal of renewable energy share in total electricity use is:
2023 -> 2,5%
2024 -> 4%
2030 -> 50%

PTA Plant Energy Management

In 2022, we have provided climate-related risk-opportunity assessment and perspective in our Task Force on Climate-Related Financial Disclosure report specific to our PTA Production Plant. Scheduled to commission in 2023, our PTA Production Plant will be operated and controlled with INVISTA P8 technology. This technology will allow us to achieve 65% lesser greenhouse emissions than conventional PTA plants thanks to waste gas generation. At the same time, our plant will generate its own electricity with off-gas treatment and steam turbine technologies, eliminating the external dependency. In this context, we aim at generating 1,360,785 GJ electricity to meet the needs of our plants thanks to the waste gas released as a result of exothermic reaction during production processes (off-gas).

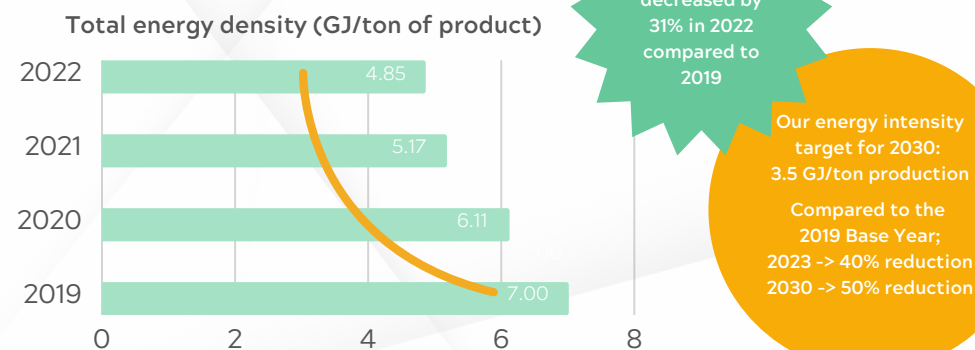
With new investments, our company has achieved a substantial reduction in its energy density value by virtue of effective energy management and efficiency applications to meet the rising energy consumption.

In 2022, our energy intensity decreased by 6% compared to the previous year, as our energy intensity dropped from 5.17 GJ/ton in 2021 to 4.85 GJ/ton.

Upholding our sustainability vision, we will continue to exercise efforts to make our energy consumption even more efficient in the upcoming years. In 2023, when our PTA investment is operationalized, we will continue reducing our energy density to lower levels. Our Company will perpetuate its firm adherence to its commitments in energy management, both achieving cost savings and making progress towards being an environment-friendly business.

Our VAT Projects that received incentives in 2021 and 2022 are as follows.

- Efficiency Improvement Project in Engines - 1
- Replacement of Fan Blades with Efficient Fan Blades
- Efficiency Improvement Project in Engines - 2
- Increasing Energy Efficiency in Pump Systems
- Increasing Energy Efficiency by Renewing Tower Fan Blades



ENERGY MANAGEMENT

GRI 3-3, GRI 302-4, GRI 302-5



SASA Reliability Center

At SASA Reliability Center, we carry out tests such as steam trap, air leakage and thermal, as well as insulation applications in order to ensure energy efficiency.

Steam Trap Measurements

We conduct quarterly steam trap tests at all our plants and facilities. According to 2022 tests, we achieved 1,505 tons of steam saving from the steam traps.

Air Leakage Measurements

According to quarterly air leakage tests on the aerial lines, 491,120 kWh of energy savings was achieved during 2022.

Thermal Measurement and Insulation Applications

We identify and re-insulate the lines with faulty insulation according to the results of the quarterly thermal measurements. As a result of these works, we ensured a natural gas saving of 200,000 Sm³.



WATER AND WASTEWATER MANAGEMENT

GRI 3-3, GRI 303-1



We are aware that water resources are not limitless, and lack of water has adverse impacts on life. Always adopting a responsible and sustainable water management approach, we take our steps in line with Clean Water and Sanitation, the sixth of the UN Sustainable Development Goals. We carefully plan our water supply, process-based water consumption and treatment of process-generated wastewater. We use efficient treatment technologies in water recovery.

In our cooling applications and processes, we use the underground water supplied from our in-house wells. We have planned to open new water wells to meet our rising water need for our new investments. We are using methods such as the Digital Elevation Model (DEM), Groundwater Flow Direction, Cumulative Flow Calculation and Determination of Basin Boundaries in our project site works.

In the modeling, the aquifer boundary conditions are embedded in the model network in alignment with the geological features. The flow model is calibrated using borehole data in the free aquifer. According to the DSI report, it is possible to draw 400 hm³ water safely from Lower Seyhan Plain Sub-Basin.

To reduce water consumption, we have developed the projects such as "automation and optimization of tower blowers" and "monitoring of condensate return water" while monitoring our consumption patterns monthly, ensuring controls and interventions for water leakage.

We calculate and verify our water footprint in accordance with the requirements of ISO 14046 in addition to local and international legislation.

- According to calculations, our water footprint for 2022 is as follows:



4,967,016 m³
Total blue water footprint
2.66 m³/ton production
Blue water consumed per product

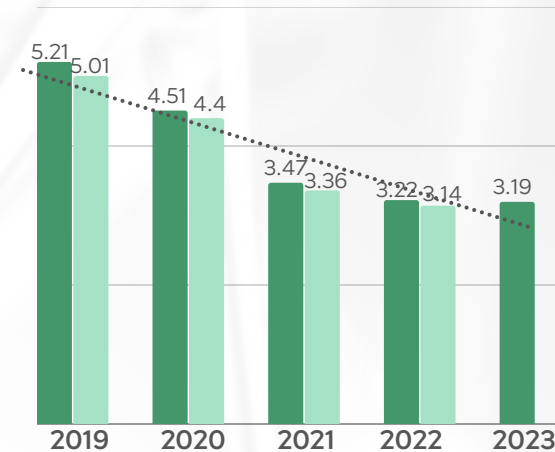


1,341,652.75 m³
Total gray water footprint
0.849 m³/ton production
Gray water consumed per product

You can find our 2022 Water Footprint Verification Statement in the appendices.

Water Intensity (m³ raw water withdrawn/ton production)

■ Target Value ■ Realized Value



Compared to 2019, we achieved a 37% reduction in water intensity in 2022

We aim to reduce our water consumption by 200,000 m³/year with the improvements we will make in 2023 and 2024.

WATER AND WASTEWATER MANAGEMENT



Wastewater Management

Our plant, which holds a Wastewater Treatment Plant "ID Certificate", treats industrial wastewater, process flush wastewater and domestic waste waters that are generated during our production processes. Installed in 1998, scaled up in 2011 and 2019, respectively, the plant uses physical, biological (anaerobic and aerobic treatment), chemical and advanced treatment processes. Apart from the inspections of the Ministry, performance of our plant is under constant monitoring with daily sample analyses made by our in-house environment laboratory.

The generated wastewater is discharged into State Hydraulic Works drainage ditch in line with the discharge limits set by the Water Pollution Control Regulation (WPCR) and standards of International Finance Corporate (IFC). The parameters of discharged wastewater such as Suspended Solids, Conductivity, Dissolved Oxygen, pH and Chemical Oxygen Demand parameters are monitored online by the Ministry through the Continuous Wastewater Monitoring System (CWMS)..

To be commissioned in 2023, PTA Production Plant Project is designed using advanced treatment technologies. The wastewater generated by our PTA Production Plant is expected to contain high concentrations of Chemical Oxygen Demand due to the PTA production. Wastewater will be treated in line with the local regulatory limits and IFC standards and 55-60% of the process wastewater will be recovered for re-introduction into the cooling towers. DMT (Dimethyl Terephthalate) process water will be treated separately in Biobed EGSB (Expanded Granular Sludge Bed). In addition, recovery of catalyst and benzoic acid will be made. The plant aims to generate 14.5 million N m³/year of biogas with the anaerobic treatment. Air blowers in the biological treatment unit will be automated using Hubgrade technology equipped with Industry 4.0 features, which will further increase our electricity savings. In our PTA plant, we aim at achieving 75% lesser wastewater discharge thanks to the INVISTA P8 technology.

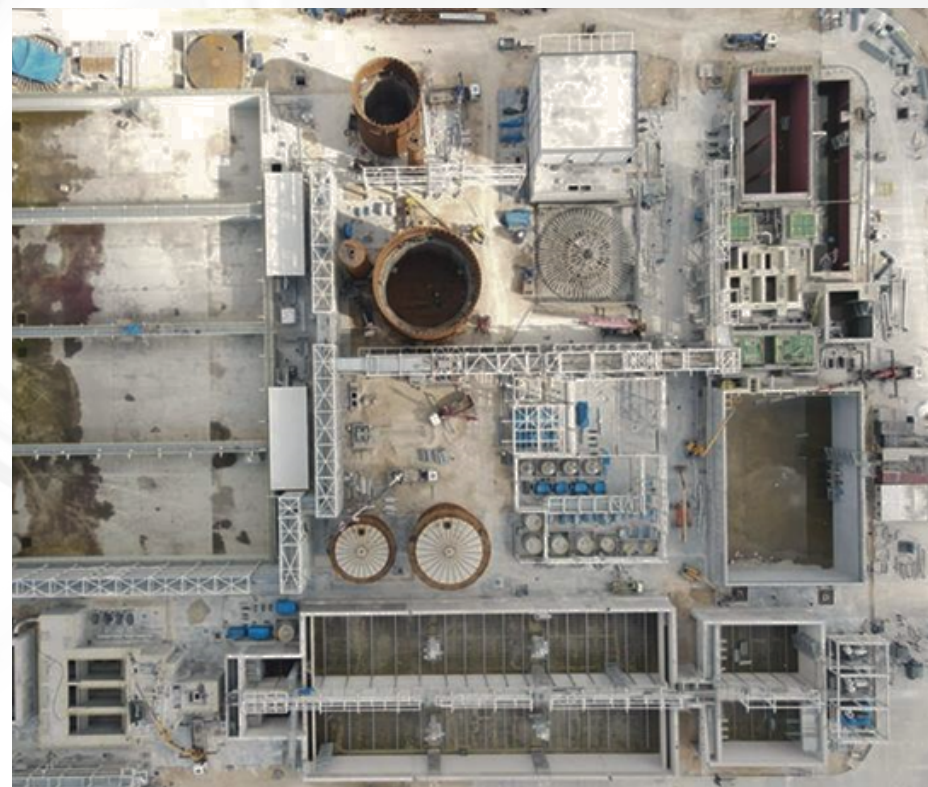
Taken for the first time this year, we attained a score of B- from CDP Water Safety questionnaire. In the coming years, we aim to further improve our score with practices such as water recovery, which will be provided by our new facilities to be commissioned.

Our relevant risks, measures and current situation are described in detail in our CDP Water Safety report. Click [here](#) for CDP Water Safety Report.

Our wastewater discharge parameters for the year 2022 are as follows:

Annual Effluent Pollution Load (kg/year)					
COD kg/year	NH4-N kg/year	PO4-P kg/year	Sulphur kg/year	Sulphide kg/year	T.Chrome kg/year
114,341.63	1,012.10	2,988.93	60.04	510.67	654.90

Our ongoing wastewater treatment plant construction



WATER AND WASTEWATER MANAGEMENT

GRI 3-3



Water Related Risks	Description of Risks Related to Water	Term
Physical Risks Quantity		Medium
Water Stress	Due to the fact that the Seyhan River basin is under water stress, the risks of inability to meet the water needs of SASA facilities and disruption in production, difficulty in meeting customer demand and supply contracts, loss of sales and income, damage to reputation	Short-Medium
Water Depletion	Higher operational costs to secure water supply, such as drilling wells, building new water treatment plants, or purchasing water from alternative sources	Short - Medium
Interannual variability	Production interruptions, increased operational costs, decreased productivity, compliance costs and reputational damage	Medium - Long
Seasonal variability	Seasonal variability causing operational problems	Short-Medium
Groundwater table decline	Decreased groundwater levels as a result of potential droughts Interruption of operation of existing facilities and construction processes of new facilities	Long
Riverine flood risk	Since SASA facilities are not close to the Seyhan river, no direct impact is expected.	Long
Coastal flood risk	Since SASA facilities are not close to the Mediterranean coast, no direct impact is expected.	Long
Drought risk	Due to the inability to meet the water need, the operation of the equipment and business continuity are endangered.	Short - Medium

Water Related Risks	Description of Risks Related to Water	Term
Physical Risks Quality		Short - Medium
Untreated connected wastewater	- Legal compliance costs - Loss of business and income in the long run as a result of reputation damage - Contaminants in bound wastewater increase operating costs, requiring more frequent maintenance, repair and replacement of equipment. - Increased medical costs and insurance premiums related to health and safety risks for workers and surrounding communities	Short - Medium - Long
Coastal eutrophication potential	- Coastal eutrophication leads to growth of harmful algal blooms that can affect water quality and aquatic ecosystems. - Increased operating costs for regulatory compliance - Substances causing eutrophication also adversely affect the performance of wastewater treatment systems. - Harmful algal blooms pose health and safety risks to workers and surrounding communities	Short-Medium-Long
Regulatory and Reputational Risks		Medium- Long
Unimproved/no drinking water	- Possible health and safety risks to workers and surrounding communities - Increasing medical costs and insurance premiums	Long
Unimproved/no sanitation	- Possible health and safety risks to workers and surrounding communities - Increasing medical costs and insurance premiums	Medium- Long
The Peak RepRisk country ESG risk index	- Increasing compliance costs related to high ESG risks - High ESG risk index damaging company reputation, loss of business and income in the long run - Customers, investors and other stakeholders less likely to do business with a company associated with high ESG risks - High ESG risks increase operating costs for SASA; for example, investing in additional measures to reduce the company's environmental footprint or improve worker safety	Short - Medium

WASTE MANAGEMENT

GRI 301-2, GRI 301-3, GRI 306-1,
GRI 306-2

In light of our Environmental Policy, we are committed to reducing our consumption by adopting the sustainable and efficient use of water, energy, raw material, chemical, etc resource consumption during our activities, resources sustainably and efficiently in our operations, and to prevent our activities from generating waste in line with the principles of the circular economy while applying clean production technologies and the best practices available. Our Waste Management Procedure, as our application guide for an effective management of this process, applies to both solid and liquid waste generated by all activities carried out across the SASA plants and facilities. All our personnel are made responsible for application of this procedure within their areas of responsibility.

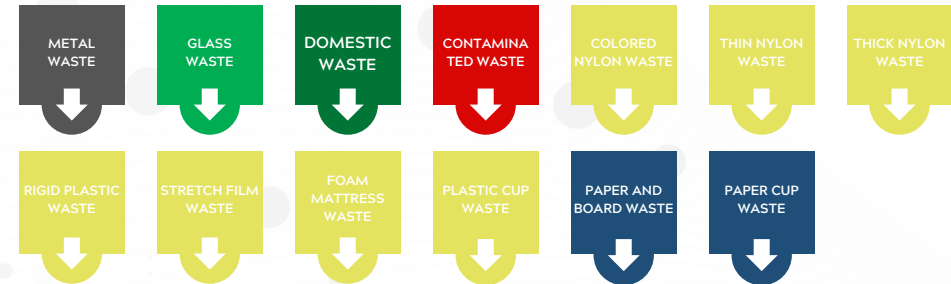
We closely keep tabs on the regulatory developments through our Ministry-certified Environment managerial unit, according to which we carry out identification, definition and control of the waste origins and recovery/disposal of the waste to prevent any waste generated by our plants from causing direct or indirect environmental damages.

Our Company is awarded the basic level Zero-Waste Certificate as an outcome of the Zero-Waste Project of the Ministry of Environment, Urbanization and Climate Change.

Senior executives and departments are responsible for the implementation of the waste procedure. Our senior executives monitor waste management, provide qualified human resources, develop and use clean technologies, ensure marketing and technical improvement/development of environment-friendly products as well as use the technologies that reduce waste generation and encourage waste recovery. Also, they strive for using natural resources and energy efficiently.

Hazardous and non-hazardous industrial waste generated at our plants are collected in our temporary storage area, which are then delivered to the licensed recovery facilities. We comply with the Regulation on Packaging Waste Control of the Products introduced to the market, and the commitments for the packaging and products covered by the Recycling Contribution Fee Commitment. Wastes are separated according to their types and collected in the color-coded containers provided across the facilities.

Our hazardous waste are delivered to licensed facilities via licensed vehicles and drivers through MOTAT (mobile waste tracking) system.

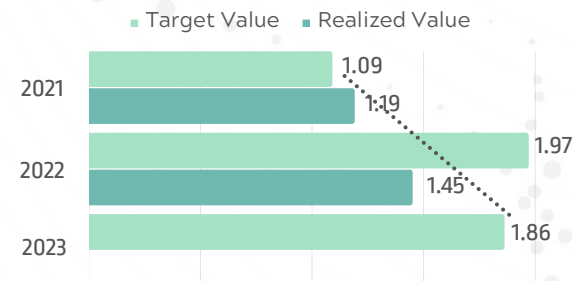


Zero Waste Recycling Container Colours

Besides the medical waste from our sickbays, the masks and gloves started to be used with the COVID-19 pandemic are treated as infectious waste at our plants, which are subject to waste management plan, and accordingly disposed of as medical waste.

Also, PET wastes from our processes are used as raw materials at Merinos facilities after subjecting them to necessary processes at licensed recovery plant in Merinos Carpet, a company of Erdemoğlu Holding.

Hazardous waste intensity (kg hazardous waste/tons production)



We are proud to have produced less hazardous waste than expected in 2022.

BIODIVERSITY

GRI 3-3, GRI 304-1



At SASA, we always give particular importance to our bonds with sustainability. Therefore, we work with great sensitivity in line with the principles of sustainability to reduce our impact on the biodiversity and to protect natural resources.

By conducting environmental impact assessments, we measure and take measures to mitigate the effects of our projects and activities on biodiversity. In this context, our Biodiversity Management Plan, which was created for our PTA facility, was expanded to include our existing facilities and the Additional Polymer Chips and Polyester (Fiber/MTR) Production Facilities and Auxiliary Facilities (Wastewater Treatment Plant, Storage and Thermal Power) Capacity Increase Project, which we plan to implement, through this expansion our Sustainability Biodiversity Report has been prepared.

According to the site assessments, the project site and its close vicinity do not have rare or endemic plant species, protected types classified in IUCN Red List according to BERN and CITES Conventions, as well as critical habitats and designated species according to the Critical Habitat Assessment Methodology.

SASA - Sustainability Biodiversity Report has been prepared in accordance with the IFC Performance Standards, especially PS 6 requirements, in order to contribute to the studies and assessments for the determination of the Environmental and Social Impacts of all new investments and existing facilities in SASA's Adana campus.



The implementation and procedure of the Biodiversity Report has been prepared in accordance with all relevant national and international requirements and standards, including Environmental Law and EIA requirements. This report aims to facilitate implementation by bringing together all biodiversity-related information, mitigation measures and recommendations throughout the lifecycle of SASA investments and operations. General Manager, Construction Manager/ Project Manager, Occupational Health and Safety [OHS] Department, Social Responsibility Team, Administrative Affairs Department, Contractors and Ecology Specialists play a role in the implementation of the report.

As part of the national EIA process carried out in June 2020, detailed field observations and literature surveys were conducted to determine the floristic structure of SASA's Adana campus. As a result of the researches, it was observed that there are agricultural and irrigable areas in SASA Adana campus. However, plant species with endemic or rare populations were not detected in the project area.

In addition to the fact that the cosmopolitan species commonly seen in the region are also present in the project area, there are no protected species in the IUCN endangered category at the project site. These findings confirm the region's compliance with the BERN and CITES conventions. After the literature review, 118 taxa belonging to 27 families were identified in the region.

In order to determine the faunistic structure of the campus, project area and the nearby region is visited, and necessary field work is done. General habitat structure and vegetation of the region is analysed, photographed, and the literature and public opinion researches are done.

At least 10 mammal species have been identified in the project site and its immediate surroundings. Among these species, there are no endemic or migratory mammal species with high conservation status, rare and endangered species. Among the detected species are carnivorous, herbivorous and omnivorous mammal species. In addition, as a result of field studies, small mammal species such as mice or other rodents were observed in the project area.

BIODIVERSITY

GRI 3-3, GRI 304-2



As a result, there are no habitats or species in and around the Project area that are evaluated as Critical Habitat as a result of the studies carried out in the Biodiversity Study Area or that have the qualities/characteristics specified in the IFC and EBRD criteria.

There is no international protected area adjacent to the project site or site boundaries. However, there are four natural areas with protected status that can be defined as the immediate environment:

- Adana Seyhan Dam Lake Wildlife Development Area (8.6 km north)
- Adana Tuzla Lake Wildlife Development Area and Wetland (32.6 km southwest)
- Adana Akyatan Wildlife Development Area and Wetland (31.6 km south)
- Yumurtalık Lagoon (43.8 km southeast)

As part of the Sustainability Biodiversity Report, construction and operation activities in our new projects may have direct or indirect impacts on biodiversity. The key performance indicators that will be used to assess the progress and effectiveness of mitigation measures and key actions to monitor these indicators are summarized below.

Key Performance Indicators (KPI)	Explanation
KPI1- Biodiversity Events	Minimizing and continuously improving the number of biodiversity-related incidents reported
KPI2- Habitat Degradation	Minimizing the direct and indirect effects of fieldwork
KPI 3 - Access road wildlife mortality rate	Minimization and continuous improvement in the number of traffic-related incidents
KPI 4 - Uncontrolled oil, wastewater, waste, etc. release	Minimization of uncontrolled oil, wastewater, waste, dust, etc. and continuously improving the number of release related events
KPI 5 - Community Complaints	Minimizing and continuously improving the number of community complaints about biodiversity
KPI 6 - Staff Training	Training of all employees in accordance with their position, including environmental management practices



ENVIRONMENTAL FRIENDLY PROJECTS

GRI 3-3, GRI 302-4



Topic	Project	Prioritized Sustainable Development Goals
Natural Gas Efficiency	Within the scope of improving the DMT steam efficiency, the amount of methanol used in the process has been reduced and the heat requirement has been reduced. Line leaks are minimized by improving steam line insulations and steam traps. With this project, steam production was reduced by 100 kg per ton, resulting in a total of 1,632 tons of savings.	 
	In CP1 and CP2 polymer and CP3 and CP4 plants; a total of 7,883 tons of steam was saved in 2022 by reducing the DMT feed temperature, eliminating insulation deficiencies and condensation losses on the DMT transfer line, and reducing the CP4 jet steam feed pressure.	
	In the CP3 KEG preparation tank, 1,086 tons of pure water and 123 tons of steam were saved as a result of the liquid vapor called condensate being collected in a tank and connected to the rotten steam collector.	
	In the CP9 operation, natural gas savings were achieved by reducing the return temperatures from 300 °C to 296 °C. 57.9 sm ³ of natural gas is saved per day for each breaker. Considering the 4 breakers, annual natural gas savings; 84,534 sm ³ .	
	By using flash steam instead of live steam in the heating of solution preparation tanks in Batch Polimer 1 plant, saving 396 tons of steam per year by increasing the steam usage efficiency per ton of production is expected.	
	In the Batch Polymer plant, saving 1,650 tons of steam annually with the flash steam furnace, which is to be built, to melt PTHF [Polytetrahydrofuran] barrels is expected.	

Topic	Project	Prioritized Sustainable Development Goals
Raw Materials Efficiency	With the efforts to equalize the use of Manganese Acetate in the CP4 plant, a decrease of 565 kg was achieved in the use of Manganese Acetate.	  
	The amount of Methanol used was reduced by increasing the temperature of the Methanol supplied to the unit within the scope of efficiency improvement studies for Methanol, which is used as the main input in our DMT facility. Methanol intermediate storage tanks and internal purification working conditions are optimized. Vent system working conditions have been renewed. With the project, a 15 kg reduction in MeOH consumption per ton of production was achieved, resulting in a total of 1,796 tons of savings.	
	The scope of the studies aimed at packaging savings was expanded with the use of 1,100 kg big bags instead of 1,000 kg big bags, which were first started for the products produced in our CP3 facility. 10% packaging savings are expected with the project of feeding SSPs from CP and Batch businesses with 1,100 kg bags.	
	In the CP9 facility, it is planned to reduce the size of big-bag bags from 136 cm to 129 cm, resulting in a reduction of approximately 15 g per bag. In this way, it is aimed to reduce a total of 3,000 kg big-bag packaging.	
	In our DTY plants, we have increased the weight of yarn wound on a bobbin with the agreement made with some of our customers, resulting in a saving of 28,208 tons in 2022. At the end of the project, it is aimed to save 243,899 [43 tons per year] bobbins.	
	With the project to reduce the amount of plastic stretch used on a pallet in our DTY facilities, 3,632 kg of stretch was saved in 2 months. With the project to reduce the pallet cover to 120 microns, the use of plastic cover is expected to be reduced by 3.69 tons.	

ENVIRONMENTAL FRIENDLY PROJECTS

GRI 3-3, GRI 301-2, GRI 302-4



Topic	Project	Prioritized Sustainable Development Goals
Raw material Efficiency	In our DTY plants, 6,439 discs have been reused by reversing the worn-out discs used in our texturing machine twisting units and reusing them in the bottom row in the unit.	  
	In our DTY facilities, 2.66 tons of cardboard was saved by increasing the box sizes used in packaging.	
	In our DTY facilities, it is aimed to reduce the micron of bobbin bags used in automation from 13 to 11, and to reduce 2.43 tons of bobbin bags per month.	
	In our DTY facilities, the processes followed by the paper system in the enterprises were transferred to the electronic environment and the paper usage was reduced by 52 kg.	
	In our DTY facilities, it is aimed to reduce 123 tons of cardboard boxes per month by using boxes with 6 compartments in packaging.	

Topic	Project	Prioritized Sustainable Development Goals
Clean Production Practices	A total of 218 tons of MEG loss will be prevented by with the project of zeroing the MEG Leakage in Methanol in our CP3 and CP4 Plants.	 
	Within the scope of the Project for the Prevention of Monomer Waste in CP3 and CP4 Plants and increasing the Operational RMYs, a total of 29.5 tons of monomer waste in 2022 will be converted into 22.1 tons of PET chips instead of waste.	
Sustainable Product Management	In our DTY facilities, 413,151 kg of pallets were saved in 2022 by reusing the pallets that were recovered after the use phase.	
	In our DTY plants, the number of cycles was increased by usage of ultrasonic cleaning of machine parts with temperature and vibration, and with this 24 filters were recycled in 3 months.	
Electricity Efficiency	In our DTY plants, places with unnecessary electricity consumption were identified and mechanisms with time relays or motion sensors were installed in these places, reducing electricity consumption by 73,010 kWh in 3 months.	
	In our DTY facilities, a monthly reduction of 22,913 kWh is expected with the automatic cut-off of electricity when not in use, with the sensor attached to the machine lights.	
	In our DTY plants, the Reduction of Air Consumption project has been reviewed and the same quality of yarn is produced with the changes made in machine drafting, temperature and spot pressure, while less air consumption in the process has been ensured. Within the scope of the project, an annual saving of 7,244,718 kWh was achieved.	



4

SUSTAINABLE
PRODUCT
MANAGEMENT

OUR APPROACH

GRI 3-3



We, as SASA, aim at minimizing the environmental impacts at all stages of our products from production through re-use and up to recycling, and increasing the social benefit. We place circular economy and green chemistry practices at the center of our sustainable product management approach, according to which we plan our product and process designs, and manage all our value chain processes.

In line with our sustainable strategies, we pioneer our industry, in both Turkey and world, bringing innovations into life, each a first-in-industry, thanks to the products that are tailored to the demands and supplies of our customers. As the patent holder of the world's first direct PET bottle recycling, and Europe's first PET bottle recycling plant, we achieve unusual successes. Also, we create a mechanism which facilitate progress and improvement with our continuously improved process projects. As SASA, we adopt sustainability as a priority, contributing to protection of natural resources and passing a better earth on to the future generations.

We equip our plants with a robust technological infrastructure, closely track and monitor our processes and products via our qualified R&D and P&D team, while keeping abreast with the scientific developments in Turkey and the world. Our R&D collaborations with Turkey's leading universities and research centers contribute to the industry-academy partnerships, carrying Turkey a step forward in the field, creating opportunities to study and generate promising ideas. As SASA we continue to adopt sustainability and safeguard our leadership in technology and innovation, offering our customers constantly better products.

We closely keep tab on the local and global regulations to continuously develop our select product portfolio, i.e. polyester fiber, filament yarn, polyester polymer and other products. We ensure a transparent communication with our stakeholders while making the safety data sheets and analysis certificates of our products available and accessible to them. We always focus on raising our quality standards thanks to our innovative and environment-friendly production methods. To improve our service quality and customer satisfaction, we embed customer demands and complaints in our product and process quality improvement processes. As SASA, we offer products that meet the requirements of our customers, striving for a sustainable future.

Embracing the cradle-to-cradle lifecycle understanding in our product designs, we consider entire processes from raw material yield to production, from recycling to recovery. Thus, we develop optimized methods that minimize and resolve environmental and social impacts right at the earlier stages of design. We provide our customers the opportunity to evaluate our products and strategies from a wider perspective thanks to the analyses and reports under the worldwide-recognized Life Cycle Assessment (LCA) that we carried out for our products.

In 2023, it is aimed to conduct a comparative LCA study for ADV14026 and ADV14026B products. As a result of our comparative LCA study, the environmental effects of biobased and standard products will be revealed and compared.



CIRCULAR ECONOMY

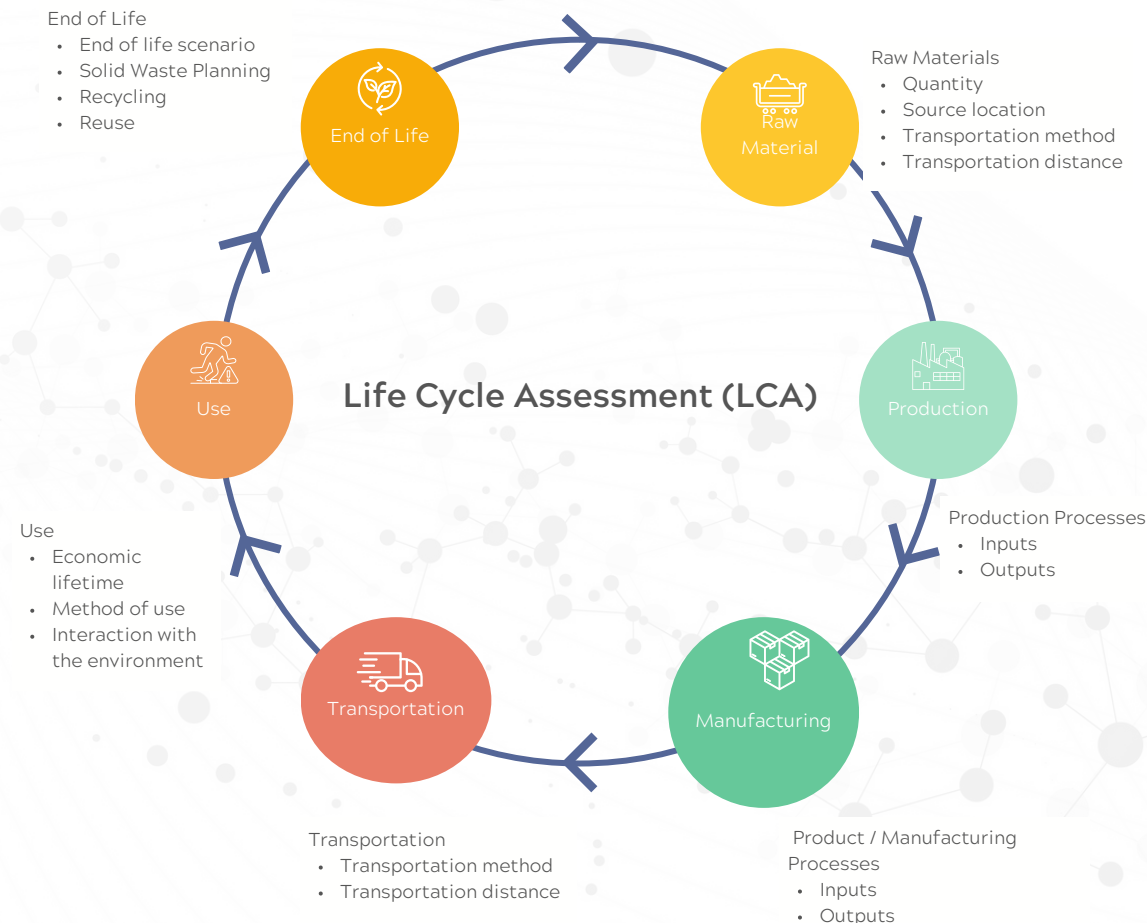
GRI 3-3, GRI 301-2



As SASA, we embrace an approach that is compliant with "Circular Economy Action Plan that is developed in line with the European Green Deal, and takes every stage of the lifecycle into consideration. We address all industrial and commercial processes in accordance with the lifecycle, and apply the principles of Green Deal in our sustainable waste management in line with the principle of circular economy. Our sustainable waste management is verified by the Zero Waste Certificate.

SASA relies on the lifecycle assessment (LCA) method which holistically considers entire stages of the lifecycle of its products for a sustainable future. We analyze environmental impacts of the entire stages from raw material extraction to production, use to post-use waste management, which also takes account of the factors such as energy and material consumption, waste management, emissions and energy recovery. Adopting this method, we completed the LCA reporting for our PBT and PTA products, and which is in progress for our other products such as PET (DMT derivative), PET (PTA derivative), Fiber, POY and Yarn. As a result, we contribute to circular economy and therefore a sustainable future.

We continue our research on the production of recycled PET using chemical recycling practices in order to be a more sustainable option for the environment and to reduce the amount of waste.



GREEN CHEMISTRY

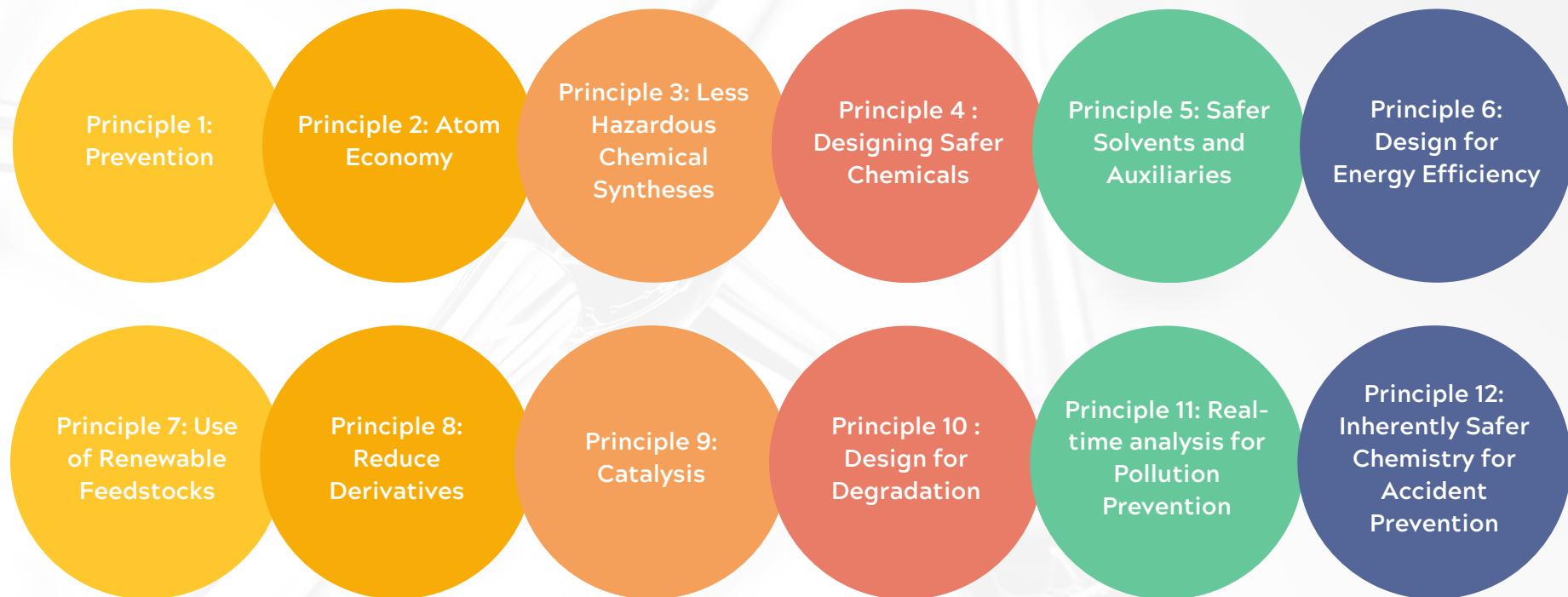
GRI 3-3



As Turkey's pioneering company in chemical and textile industry, our sustainable product management strategy is based on 12 principles of "Green Chemistry". In this way, we target at minimizing or eradicating the damages that are caused by our chemical production and applications on the environment, nature and entire living-beings, while embracing a managerial philosophy which support eco-design studies.

As a worldwide-recognized, integrated polyester and chemical producer, we are striving for transitioning to an economy that focuses on using and production high-quality, environment and human-friendly safe chemicals and sustainable materials, and accordingly furthering our corporate activities in this direction

Please [click here](#) to access our Hazardous Substances and Chemicals Policy which contains our commitments in this respect.



GREEN CHEMISTRY

GRI 3-3



Our Green Chemistry Approach and actions are summarized in the table below.

Principles	Our Approach	Actions Taken
Principle 1: Prevention	It is better to prevent waste than to treat or clean it after it has been generated.	Production of PTA-based polyester at our new plants and our new investments serves to the Prevention, Less Hazardous Chemical Syntheses and Reduce Derivatives Principles of the Green Chemistry. Because PTA-based production produces water, compared to the ethanol in the DMT-based PET production. Also, the majority of this water is re-used in the system. Besides PTA plant, we invest in the benzoic acid production to further reduce chemical content of the waste water. Benzoic acid will be used and produced in this plant, instead of being delivered in the waste water.
Principle 2: Atom Economy	Synthetic methods need to be designed to maximize the share of all process materials in the final product.	Automated Control System (DCS) provided in all our plants serves to the Atom Economy Principle of the Green Chemistry. Processes are controlled with DCS system so that PTA/MEG and DMT/MEG will constantly remain at the optimum levels.
Principle 3: Less Hazardous Chemical Syntheses	It is needed to design synthetic methods to use and produce the materials that are very low to none hazardous to the human health and environment as much as practicable as possible.	Production of PTA-based polyester at our new plants and our new investments serves to the Prevention, Less Hazardous Chemical Syntheses and Reduce Derivatives Principles of the Green Chemistry. Because PTA-based production produces water, compared to the ethanol in the DMT-based PET production. Also, the majority of this water is re-used in the system.

Principles	Our Approach	Actions Taken
Principle 4: Designing Safer Chemicals	Chemical products must be designed so that they will remain functional while reducing their toxicities.	In our industry, DOP containing BPA is commonly used. For BPA-free products, DOTP is produced by SASA for the first time in Turkey, for which production capacity has been increasing every day.
Principle 5: Safer Solvents and Auxiliaries	The need for auxiliary agents (such as solvents, separating agents, etc.) must be completely eliminated wherever possible, or if absolutely necessary, made harmless.	Instead of the previously used polymer solvent OKF, a more reliable solvent DCA (Di Chlor Acetic Acid) has been used.
Principle 6: Design for Energy Efficiency	Energy requirements must be recognized and minimized in terms of their environmental and economic impacts. Synthetic methods must be applied under the ambient temperature and pressure.	Energy efficiency projects are a task of Environmental Sustainability Work Group organized under our Sustainability Committee, which constantly keep track of and monitor existing projects while developing new projects under the ISO 50001 management systems.
Principle 7: Use of Renewable Feedstocks	A raw material should be renewable not depleted all together if it is to be technically and economically feasible.	Trial studies were conducted to test the renewable raw materials. Product trial studies were carried out to compare the bio-based and non-bio-based raw materials. LCA analysis is now in the pipeline to compare these two products.
Principle 8: Reduce Derivatives	Unnecessary derivations (such as use of protecting groups, use of preservatives/removal of preservation, or temporarily modifying the physical/chemical processes) must be minimized and if possible avoided, because these steps require extra reactants, which may generate further waste.	Production of PTA-based polyester at our new plants and our new investments serves to the Prevention, Less Hazardous Chemical Syntheses and Reduce Derivatives Principles of the Green Chemistry. Because PTA-based production produces water, compared to the ethanol in the DMT-based PET production. Also, the majority of this water is re-used in the system.

GREEN CHEMISTRY

GRI 3-3



Principles	Our Approach	Actions Taken
Principle 9: Catalysis	Catalytic reagents (as selective as possible) has outstanding properties compared to stoichiometric reagents.	Our R&D laboratories continue studies and research on the effectiveness of catalysts.
Principle 10 : Design for Degradation	Chemical products must be designed so that they will break down into degradation products and are not persistent in the environment once they completed their functions.	Our studies continue on the expansion of our bio-degradable products.
Principle 11: Real-time analysis for Pollution Prevention	Analytic methodologies must be improved further to allow a real-time, in-process monitoring and control before formation of the hazardous substances.	We are analyzing the wastewater via our in-house processes, which is also controlled by the public authorities through CWMS (Continuous Wastewater Monitoring System) cabinets. With Continuous Emission Monitoring Systems, we constantly monitor and keep track of our emissions.
Principle 12: Inherently Safer Chemistry for Accident Prevention	Substances and the form of a substance used in a chemical process should be chosen to minimize the potential for chemical accidents, including releases, explosions, and fires.	Our commitments which serve to the objective of accident prevention and safer chemistry are provided in our Hazardous Substance and Chemicals Policy.

To prevent hazards that emerge as a by-product of ever-advancing, growing and progressing industry, and ensure efficiency in terms of energy and raw material, SASA is committed to reduce purified MEG and use 300,000 tons of purified MEG annually until 2025 with dilution processes thanks to its improvement projects for the purposes of green chemistry.

Our new waste water treatment facility, currently under construction and to be commissioned in 2023, will use Hubgrade technology where input-output Chemical Oxygen Demand (COD), Nitrogen (N) and Phosphor (P) values will be metered automatically and only necessary volumes of oxygen and nutrient will automatically be calculated and fed to the system, as a result, ensuring an electricity saving of 1,255 MWh/year to 2,330 MWh/year until 2025.

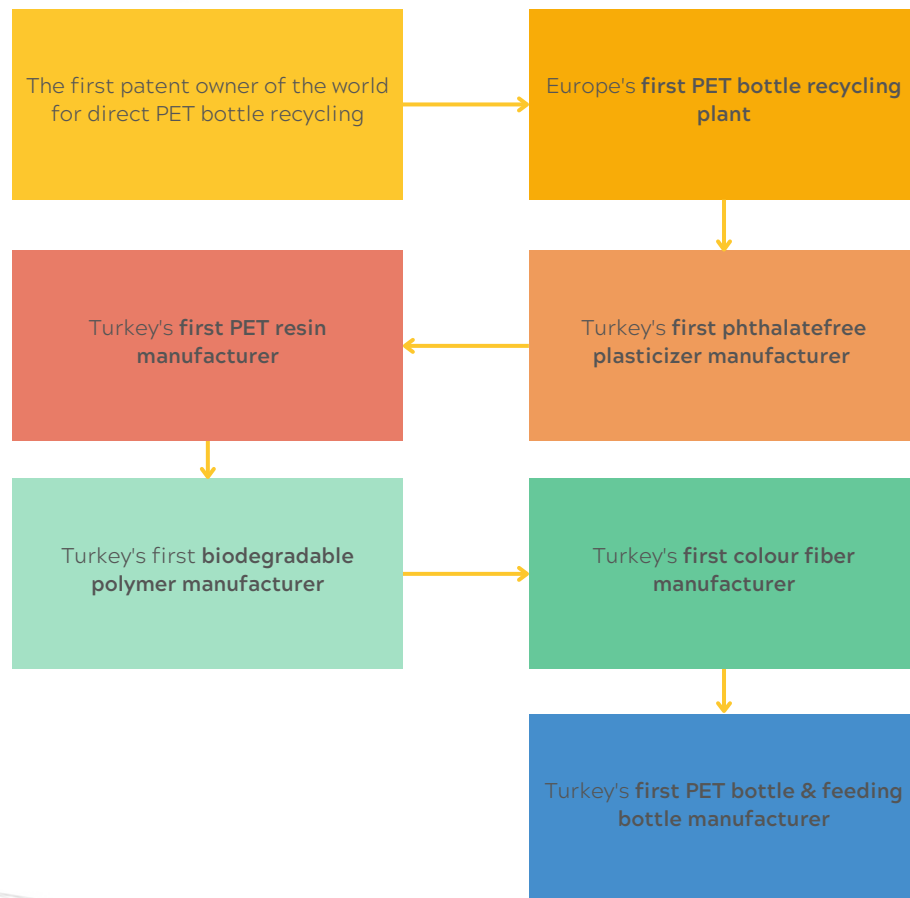
This technology will facilitate optimization of N and P nutrients, enabling a saving of 20% to 40% compared to the normal conditions. The chemical saving is projected to be 104.6 tons/year to 209.2 tons/year. In addition, continuous optimization will maintain and increase the efficiency of the system.

ECO-INNOVATION AND R&D

GRI 3-3



SASA marked many firsts in the field thanks to its robust corporate structure and innovation-driven approach. As Turkey's first producer of PET bottle and baby bottles, SASA also achieved the firsts in PET resin, phthalate-free plasticizer, color fiber and bio-degradable polymer production, enjoying the status of first producer of these products in Turkey. In addition, SASA is Turkey's first patent holder in bottle recycling plant, and assumes a pioneering role in the sustainability area.



The R&D strategy of the SASA, by design, is geared towards creating difference with innovative and sustainable products, creating new markets, and bolstering its leadership position. Fast market release of environment-friendly and reliable products focused on the customer requirements are at the heart of our strategy, as the main parameters.

Our R&D strategy is aligned with our corporate sustainability strategy and updated in line with the requirements of our target markets. High quality and environment-friendly products, innovative and reliable products, products that align with branding strategy and fast market release are the main elements of our strategy.

We give priority to the projects that align with goals of our company. Our R&D Center closely keep abreast with the industrial developments and analyses the customer expectations, and develops market-based strategies. We take part in the local and international expos and fairs to get insight of the new developments, and expand our collaborations with suppliers.

We also keep tab on new developments with our periodical, publication and online subscriptions, and use different production methods and inputs to design and develop new products. We study new and different raw materials in collaboration with supply chain management.

While developing a strategy, SASA R&D Center:

- Closely keeps abreast with the developments in our industry,
- Gets insights on the industry in collaboration with our customers and develop market-based strategies.
- Joins the local and international expos and fairs.
- Develop and improve collaborations with suppliers and expands its knowledge base with new innovations.
- Stays up-to-date with all new innovations with trade magazine, journal, periodical and online subscriptions.
- Engages in new product design and development involving new production methods and different inputs.
- Studies new and different raw materials in collaboration with supply chain management.
- Analyzes products of competitors.

ECO-INNOVATION AND R&D

GRI 3-3



At SASA, P&D Strategy:

- is developed on the basis of current new product development capabilities,
- takes into account the positioning of the competing products,
- is focused on customer and markets considering the market / segment studies,
- includes product and technology roadmaps,
- incorporates strategies for management of the product lifecycle curves,
- contains strategies for not only management of products but also product portfolio,
- has clear definitions on how products support the corporate strategy,
- regularly reviewed and updated,
- regularly reviewed and updated on the basis of all markets.

New product development strategies are end-to-end implemented according to the relevant procedures, where all product ranges and stakeholders are systematically included in the process.

SASA R&D CENTRAL EQUIPMENT

Having been a major player in the production industry for over fifty years, our company has a robust technical infrastructure thanks to the R&D Center established in 2022 with its in-depth knowledge and experience. Certified by the Ministry of Industry and Technology, R&D Center is specifically designed to develop innovative production processes.

Our Center continues its work with twenty-eight expert staff, including one researcher with doctorate degree, three with graduate degree, sixteen with undergraduate degree, seven employees with associate degree, and one support employee.



OUR TECHNOLOGICAL INFRASTRUCTURE AND LABORATORIES

Our polymer, fiber and yarn production plants equipped with state-of-the-art technology have

- Chemistry Laboratory
- Physics Laboratory
- Yarn Laboratory
- Wastewater Laboratory
- Water Treatment Laboratory

equipped with cutting-edge technological equipment to conduct chemical and physical analyses, to support R&D and P&D activities providing the conditions to enable us even higher quality and durable products.

SASA has high-capacity production plants housing Nobel, ICI and Dupont technologies. The facilities and plants established on an area of 1,200,000 m2 contain state-of-the-art technologies. In addition, we have 5-L capacity pilot production plant, oven SSP and filter testing devices dedicated to the R&D and P&D activities.

A budget of 10,429,000 TL was allocated for R&D and design activities in 2022, and this figure is 8,546,000 TL in 2021.

The turnover obtained from our new products resulting from R&D or design activities and their share in the total turnover can be seen in the table below.

Product Group	Product Turnover (TL)	Share in Turnover
Fiber	2,261,295,049	7.27%
SPC	41,751,455	0.13%
2022 Total Revenue	31,111,459,000	

ECO-INNOVATION AND R&D

GRI 3-3



With over 50 years of production experience and know-how, SASA can produce three main product groups: fiber, filament and SPC (special polymers and chemicals) and products with different application areas under these groups. SASA R&D and P&D team has developed and continues to develop many new and innovative products to be evaluated within the main product groups in the wide product segmentation.

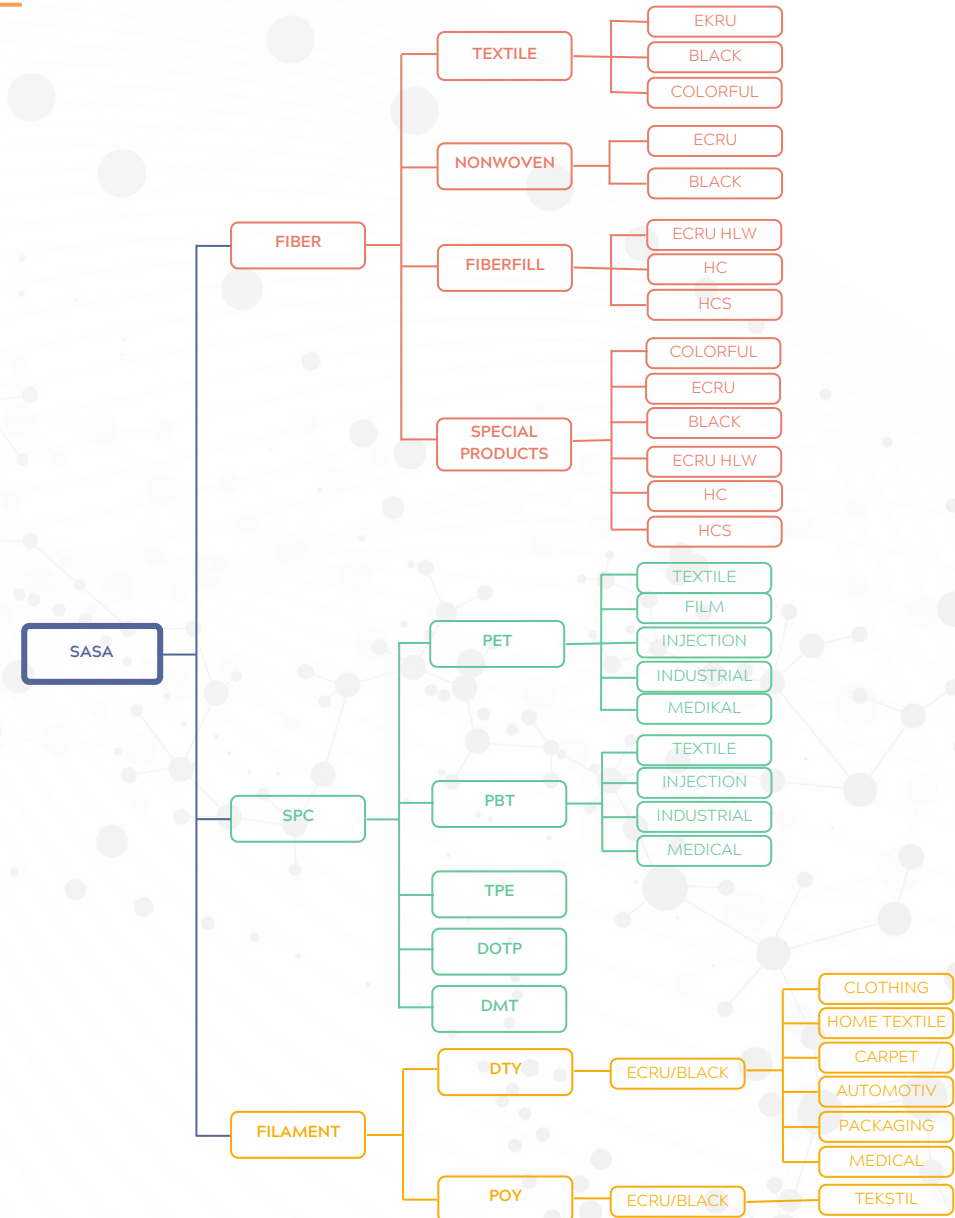
We closely follow the developments in innovation and R&D in the industry. We actively participate in innovation-related events organized by both the Ministry and universities.



Our R&D Manager, Dr. Eray Şenli, is at Boğaziçi University



Our R&D Manager Dr. Eray Şenli is at the Summit of R&D and Design Centers with Technology Development Zones



ECO-INNOVATION AND R&D



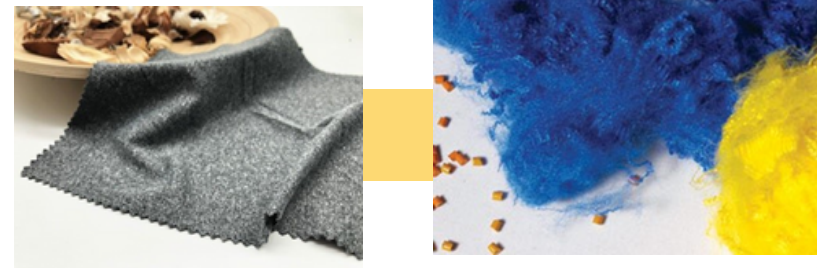
BLACK FIBER

SASA is the first company to produce black fiber by using carbon black in Turkey. This increases fastness in textile and decreases costs in fiber. The product is dopedyed, has a vibrant and deep black colour, perfect thermal stability, high cohesion, and low fiber-metal friction properties.



CATIONIC DYEABLE POLYESTER

Standard PET polymer can only be dyed with disperse dyes once it becomes polymer. The cost of dispersed dyes is high; is applied under pressure and the range of colour options is limited. The Cationic Dyeable copolymer PET product is developed to overcome this disadvantage.



FLAME RETARDANT POLYESTER (FR)

The flame retardant copolymer PET product is less likely to catch fire compared to standard PE product inhibit or delay the spread of fire. It is used as an upholstery material in mass transportation vehicles such as busses, trains and planes and public areas such as shopping malls, movie theaters.



HYDROLYSIS RESISTANT POLYESTER

After polymerization of polyester, there are carboxyl end groups in polymer structure. These carboxyl end groups can cause hydrolytic degradation when exposed to moisture or a wet environment. Hydrolysis Resistant Polyester in the product portfolio of SASA is not susceptible to hydrolytic degradation.



ECO-INNOVATION AND R&D



LOW MELTING POINT POLYESTER

SASA products portfolio included PET based and PBT based copolymer products which have lower melting point compared to standard polymers. They are most commonly used as adhesives on a single component or bicomponent fiber nonwoven surfaces.



POLYETHYLENE NAPHTHALATE (PEN)

PEN is a thermoplastic polyester prepared by polycondensation of mono ethylene glycol (MEG) and naphthalene dicarboxylic acid (NDC). It has a higher glass transition temperature (Tg). It can be used in the production of flat-screen television sets, in printed circuits, and in reusable food packaging as a result of its heat resistance and high mechanical properties.



WATER SOLUBLE POLYESTER

Water Soluble Polyester is waxy product. It does not have clear cut shape due to its low glass transition temperature. Water soluble polyester is used as a coagulant in paint materials, adhesives and cosmetic products and in stone washing of denim products.



FOOD CONTACT COMPLIANT POLYESTER

Polyester fiber that meets both local and international legal requirements for food contact compliant materials is produced.

POLYESTER FIBER WHICH HAS A HIGH STRETCHING PROPERTIES IN HIGH TEMPERATURE AS AN ALTERNATIVE TO ACRYLIC FIBER USED IN HIGH BULK YARN PRODUCTION

With this project a more environmentally friendly polyester fiber product with high bulk which could be an alternative to acrylic fiber and meet the carpet industry and similar industries.

ECO-INNOVATION AND R&D



FLAME RETARDANT ANTIMONY-FREE (SB-FREE) POLYESTER

This product group of ours have superior properties for environment and health compared to standard products since they are flame retardant and antimony-free.

POLYESTER SUITABLE FOR VORTEX YARN SPINNING TECHNOLOGY

Standard recipes used in fiber production have been shown to be unsuitable for fibers used in vortex fiber system and cause twists, contamination, and quality loss. A product with high performance in vortex yarn spinning was developed based on the studies on a process and product properties to develop a product that can be used for this purpose.

FLAME RETARDANT PLASTICIZER

Products made of flame retardant plasticizers are less likely to catch fire compared to standard products and inhibit or delay the spread of fire. They are used in products used in public spaces, in home textile, gardening products, insulation and electrical materials.

OUR INTELLECTUAL PROPERTIES AND PATENTS

We have been a patent owner since 2009 for the innovative production process and practices we have developed.

Patent No	Patent Name
EP2210911A1	Production of Polymer
EP3257886A1	Process of production of PET
US9373737B2	Biaxially Stretched Polmerfilm Comprising A Decarboxylation Catalyst, Its Use In Electrical Insulation Applications, And Process For Its Production

We continue at full speed our efforts to develop new products protected by the intellectual property rights.



INDUSTRY 4.0 AND DIGITALIZATION

GRI 3-3



We are using digital technologies as an effective tool to make our sustainable product management efficient. Thanks to the digitalization technologies we implement and develop, we achieve energy saving, optimize material consumption, and make improvements in the waste management, taking ever firmer steps towards our sustainability goals.

With our digitalization projects, we eliminate human errors, lower quality losses and maintain our business continuity. Also, we use Industry 4.0 technologies to automate our production processes, making them more effective and efficient.

Digitalization Projects in Place

SASA DS (Data Systems)

With SASA Data Systems application launched during 2022 for yarn SBU, the production automation systems are directly integrated with ERP which is designed to automatically report product costs and quality parameters, to speed up the reporting process. Thanks to automatic and faster generation of presentations and reports, we achieved further improvements in personnel efficiency, product quality reliability and our decision-making agility. System has also capability of basic statistical data analysis. Now, reporting of the data and analysis is free of human errors to the greatest extent possible.

SASA Calibration Software

This software is designed to standardize and monitor the calibration processes of the process measurement instruments throughout the SASA under ISO 9001 Management Systems. All workshops in our company uses this software to control the calibration processes, and therefore, prevents any errors and eventually quality losses that may be caused by the use of different applications, finally fostering business continuity.

Sasa Dash

This software is designed to enable quick access from anywhere to automation systems of the plants, and get an instant real-time snapshot of the values. This software provided the authorized managers with the ability to reliably connect to their plants from anywhere in the world, view the instant real-time values, and take decisions faster and more accurately.

SASA Digital Project Archive

It is set up to provide a digital repository to store archives of projects of our plants and facilities. Unlike the conventional document systems, digital system has the ability of recognizing the project codes from the scanned digital versions of the physical documents, and also enables users to access the documents of a specific equipment by only entering the code of relevant equipment. In the system, it is also possible to open the 3-D and 2-D files without requiring another software, therefore eliminating need for extra software.

Predictive Analytic

It is a system which predicts, and displays warning messages, how the equipment of our plants will behave in their interactions with related process data. On this platform we model the critical rotating equipment and quality parameters using Machine Learning methods. Creation of this model may use values such as temperature, pressure, current, flow, speed, vibration, etc.

Drone ile Kontrol ve Kestirimci Bakım

They are used in the wheel, bolt, screw and product controls which are conventionally carried out by Warehouse personnel at a height (in Automated Warehouse Site). These controls using Drone substantially reduced the time required for personnel to work at height time in accordance with OHS requirements. They also contributed to personnel productivity, playing an effective role in minimization of man-hours.



Process Projects in Progress

With a view to shift the efforts of our personnel from routine works to the added-value works, we focused on revealing automation opportunities in our processes to reduce or minimize the human errors. For this purpose, we plan to use automation system in our process of color-sorting of spools in DTY site and redelivery of them to POY plant, aiming to achieve further savings.

All spare parts, joints, connectors, devices, etc. materials used in production lines of SASA, auxiliary facilities and many points of the factories are procured domestically or overseas. Therefore, it is vitally important to procure and stock the right materials in a short time to ensure operational continuity. Project has 2 phases, and Phase 1 is completed. Phase 2 is launched.

Failure to procure the right material in required times poses a significant risk on our operational continuity. To eliminate this risk, we successfully completed the project for in-house design and production of the plastic materials (most of them are bio-degradable PLA filament-based) using 3D printers and cloud technology, and we started to produce designed plastic parts using 3D printers installed in our plant. And the fact that these plastic materials are mostly made up of PLA-based filament, which is bio-based and bio-degradable also gives the project an eco-friendly aspect.

Existing 3D printers will further be improved with Cobot Automation technology using robotic software. With this project, a designed part will be sent to the printer remotely, a completed job order will be received and new job order will be sent to printer, all without intervention of human. As a result, entire production process will be based on the automation.

With a view to shift the efforts of our personnel from routine works to the added-value works, we focused on revealing automation opportunities in our processes to reduce or minimize the human errors. The works without added value such as manual sorting of the recycling spools via our employees will be carried out using Robot and automation systems.



ECO-INNOVATION AND R&D



OUR R&D COLLABORATIONS

We believe that the collaborations we conduct within the scope of our R&D activities are of great importance for both our industry and the academic world. By establishing both industry-university and industry-industry collaborations, we are bringing together our strengths with our stakeholders and creating opportunities for the emergence of new ideas, products, and solutions that will be beneficial for society.

We are sharing the institutions and organizations we are collaborating with in the table below.

Collaborating Institution	Country	Subject
Middle East Technical University	Turkey	Feasibility study for producing the imported products using local technology (Flame Retardant Polyester (FR))
Sabancı University	Turkey	- Feasibility study for producing the imported products using local technology - Development of local technology for producing catalyst
Çukurova University	Turkey	Feasibility study for producing the imported products using local technology
Mersin University - Faculty of Engineering - Environmental Engineering Department	Turkey	Process improvement
Ege University	Turkey	Joint study for local production technology
Sabancı University - Faculty of Engineering & Natural Sciences - Chemistry Department	Turkey	Joint study for development of PET products
Middle East Technical University - Faculty of Natural Sciences - Chemistry Department	Turkey	Research on alternative methods for the recovery of pollutant monoethylene glycol

Collaborating Institution	Country	Subject
Bradford University - Faculty of Natural Sciences - Chemistry Department	UK	Research on additives with different properties
Adana Hacı Sabancı Organized Industrial Zone Directorate	Turkey	KÜP Entrepreneurship Center and Project Support Office
Invista	UK	PTA Production Plant Licensor
Koch Technology Solutions	UK	PTA Production Plant Trainings
NARS UK CONSULTING LİMİTED	UK	New Product Development
UIF (Uhde Inventa Fischer) /ALMANYA	Germany	Establishment of PTA-based PET production plants
CLT Catalytic Technologies Ltd	UK	Research on alternative catalyst systems
CARL WEISKE GmbH & Co. KG	Germany	New Product Development
Boğaziçi Üniversitesi TTO	Turkey	New Product Development and Academic Consulting

ECO-INNOVATION AND R&D



Collaborating Institution	Country	Subject
Koç University	Turkey	Academic Consulting
Erdemoğlu Holding - Merinos Group	Turkey	New Product Development
Çukurova University - Chemistry Department	Turkey	Academic Consulting and Internship
Alparslan Türkeş Science and Technology University Technology Transfer Office Application and Research Center	Turkey	University-Industry collaboration
SGS	Turkey	Project-Based Analysis Service
Ekoteks Laboratory	Turkey	Project-Based Analysis Service
Intertek Laboratory	Turkey	Project-Based Analysis Service
Eurolab Laboratory	Turkey	Project-Based Analysis Service
LC Waikiki Mağazacılık Hizmetleri Ticaret A.Ş.	Turkey	New Product Development
TÜBİTAK MAM	Turkey	Feasibility study on catalyst production
TITK Textile Research Center	Germany	Study on increased customer satisfaction in yarn production

Collaborating Institution	Country	Subject
Uhde Inventa Fischer	Germany - Switzerland	Feasibility study on replacement of DMT products with PTA-based production technology
Colormatrix	UK	Development of additives with reheating properties
Nestle	Italy	Joint study on reduction of acetaldehyde formaldehyde content
Toyoboo	Japan	Research on alternative catalyst systems
Ciba	Switzerland	Research on effects of additives on polymerization
PFE	USA	Consulting for the best method in bottle-to-bottle recycling
With Consulting	South Korea	Consulting related to yarn production systems
Oerlikon Barmag	Germany - Switzerland	Studies on the yarn - fiber production systems

OUR SUSTAINABLE SUPPLY CHAIN

GRI 2-6, GRI 3-3



As a global scale company, SASA procures from 25 different countries in the world, increasing the number and diversity of suppliers every passing day in line with the procurement targets. Using online system, SASA constantly tracks the container movements relating to the international procurements.

The distribution of total procurements by the countries as of 2018 are as follows. Accordingly, the highest volume of the procurement were made from Belgium, followed by Israel, Saudi Arabia and Turkey.

Besides its Adana-based integrated production plants, SASA also has a raw material warehouse facility in Iskenderun. This shore facility receives and stores bulk raw materials delivered via ships. Therefrom, raw materials are transferred to Adana integrated production site on the land tankers. Having an 89,000 m3 tank storage capacity, the facility has a blending capacity of 270,000 tons/year.

Supply chain of our company is highly active and operates effectively and in the global scale. Therefore, we have a complex integrated supply chain comprising pre-process, process and post-process steps. Our supply chain encompasses entire material and information flow, both upstream and downstream, from raw material acquisition to the delivery to end-user.

We are a member of EcoVadis global platform to strengthen our supply chain and minimize our corporate footprints in line with our corporate governance principles. Supervisory collaboration with our EcoVadis serves a guidance for us to speed up our responsible sourcing program. We are rated as Silver EcoVadis company in 2019. With this rating, we set strategies to level up our supply chain mechanism in the upcoming years.

We are aware that supply chain is one of the most important drivers that affect success and competitive power of our company. For this reason, we see our activities as an inter-related value chain so as to demonstrate the costs and differentiations of our existing and potential resources in our supply chain.

Green Logistics Program

We aim to implement the Green Logistics Program to conduct our logistics activities in an environmentally friendly and sustainable manner and minimize our logistics-related environmental impacts. The Green Logistics Program, which is still in the research stage, will enable us to carry out our business processes, such as transportation, storage, distribution, and supply chain management, in a more environmentally friendly manner through various practices such as fuel savings, recycling, and measuring and reducing environmental impacts.

In this context, the current status of our logistics companies regarding Green Logistics is being identified, and research on new companies that are already implementing Green Logistics practices continues.



OUR SUSTAINABLE SUPPLY CHAIN

GRI 2-5, GRI 3-3, GRI 308-1,
GRI 308-2, GRI 414-1, GRI 414-2



Upstream

Raw material, energy and water constitute our upstream resources. We mainly use six types of raw material in our production activities. Two of the main raw materials are procured from a Turkey-based petrochemical company.

All production activities and procurement operations of our company are managed and carried out at our Adana Production Base. And our Iskenderun Tank Site meets our storage needs.

Our Company embraces the principle of sustainable development that conforms to the internationally-recognized standards and upholds the environment, human rights, work and ethical values. We are committed to increasing the effectiveness of sustainability in our value chain. For this purpose, we subject all our existing and potential suppliers to the standards as also defined by our Supplier Code of Conduct. Please [click here](#) to access our Supplier Code of Conduct Policy. Please [click here](#) to access our Supplier Diversity Policy.

In addition, with our Green Procurement Policy, we ensure the equipment products and services we procured provide highest energy efficiency and have highest level of environmental sensitivity with the expectation to improve energy performance and environmental rating of our company. As a result, we consume less energy and contribute to the minimization of greenhouse gas emissions. Please [click here](#) to access our Green Purchasing Policy.

With the establishment of the Supply Chain Vice Presidency in 2022, supply processes have begun to be managed at the top management level.

We have a total of five procedures in place to regulate our business relations with our existing and prospective suppliers. Supporting the establishment of a close working, collaboration and feedback system with suppliers throughout our value chain, our procedures also fortifies our responsible supply chain.

Procedure Name	Scope
Approved Supplier Selection Procedure	It covers the selection of our suppliers according to certain criteria in order to ensure the continuity and development of quality.
Supplier Performance Evaluation Procedure	It covers the processes of evaluating the performance of our existing suppliers, classifying them, or removing them from the list.
Supplier Audit Procedure	It covers the preparation of the annual audit plan for our existing suppliers, and the inclusion of the suppliers in the audit process.
Supplier-Based NonConformance Management Procedure	It covers the notification, registration, permanent resolution, and improvement processes of non-conformities arising from the supplier.
Procurement Procedure	It covers the procurement of the necessary goods and services in accordance with the standard procurement specifications and OHS rules within the framework of the specified powers and responsibilities.

OUR SUSTAINABLE SUPPLY CHAIN

GRI 2-5, GRI 2-6, GRI 308-1,
GRI 308-2, GRI 407-1, GRI 408-1,
GRI 409-1, GRI 414-1, GRI 414-2



All our suppliers are required, as a key criteria, to have ISO 14001 Environmental Management System Certificate and ISO 45001 Occupational Health and Safety Management System Certificate so that they can be included in our certified supplier list. As a result of on-site audits, suppliers that fail to submit the aforementioned documents are deemed to have major deficiencies, leading to the direct termination of relations with the supplier. In addition, the priority is given to the matters related to environmental management in the Supplier Audit Assessment Form, and accordingly to the suppliers which are committed to such activities. Our purpose is to improve our both environmental and social supplier standards in the upcoming periods to reinforce our responsible supplier chain.

- Do they employ child labor?
- Do they have ethical rules in place?
- Is there any discrimination regarding human rights (race, gender, religion, etc.)?
- Do they carry out a risk assessment for suppliers?
- Do they have a procedure or risk management system in place?
- Do they perform carbon footprint tracking?
- Do they have a tracking system and a target?
- Do they have a social responsibility policy procedure?

All of our suppliers are subject to the evaluations mentioned above. Using the Supplier Classification and Action Table, suppliers are classified and necessary actions are taken based on the scores resulting from supplier performance evaluations.

Genel Toplam	Class	Action will be taken
90-100	A	-
70-89	B	An audit may be conducted, and improvement suggestions are researched.
50-69	C	An audit is always conducted, and efforts are initiated to eliminate any detected non-conformities.
0-49	D	They are removed from the "Approved Supplier List".

Our Middle Eastern suppliers are mainly located in Kuwait, Saudi Arabia, Egypt and Israel, while USA takes an important place in the raw material procurement of SASA.

In Europe, we do raw material business mainly with Belgium, Netherland, Germany and Romania while the share of China, India and South Korea, in the Asia, has increased significantly since the end of the COVID pandemic.

For our 6 main raw materials, we are working with a total of 25 suppliers and 20 countries in the world, The below table shows the number of the raw materials we procured as well as the origin countries.

Product Group	Supplier Number	Country	Country Number
PX	4 Suppliers	Kuwait, India, Israel, Turkey	4
MEG	4 Suppliers	USA, Kuwait, Turkey	3
PTA	8 Suppliers	Belgium, Portugal, South Korea, China	4
MEOH	1 Supplier	Egypt, USA	2
1-4 BDO	5 Suppliers	Belgium, Netherland, China, Saudi Arabia	4
2 ETH	3 Suppliers	Romania, Germany, China	3
Toplam	25 Suppliers		20 Countries

OUR SUSTAINABLE SUPPLY CHAIN



Operation

SASA manages its in-house supply chain through Design, R&D, Marketing, Sales and Operations departments. Our company carries out its managerial, operational and support processes in nineteen main process categories, and each main process includes sub-processes and detailed processes. The deductive approach makes it possible to manage our complex network of processing in an efficient and integrated way. In addition, through our Process Monitoring Forms, we record our developments in the process, collect information and contribute to our improvement process.

Downstream

We reach local and international markets with our wide range of products. We support our customers to achieve their production and consumption goals of sustainable development through our high product safety and quality standards, annual reports, cooperation projects and continuous communication.

Our three main product groups are Fiber, Specialty Polymers & Chemicals and Filament. [Click here](#) for detailed information about our product ranges.

Our "Customer Marketing Relations Procedure" regulates the processes from collection and finalization of customer orders through production and delivery planning to the after-delivery and sales services. With the Customer Service, Complaints and Compensation Procedure, we aim to provide fast and effective feedback, to investigate the root causes and to ensure that corrective and preventive actions are taken quickly and effectively in case of customer complaints about our products. In order to prevent the recurrence of complaints, we attach importance to raising the awareness of the relevant departments, assessing the effectiveness of all activities and thus increasing customer satisfaction.

With our Sales and Shipment Procedure, we aim to describe the sales and shipment processes and the duties, powers, and responsibilities within the framework of this procedure. Thus, we procure that our products reach our customers safely.



OUR SUSTAINABLE SUPPLY CHAIN

GRI 2-6



Fiber Sales

All of our domestic and international sales are on the spot terms. Fiber products were delivered to 271 domestic and 137 international customers.

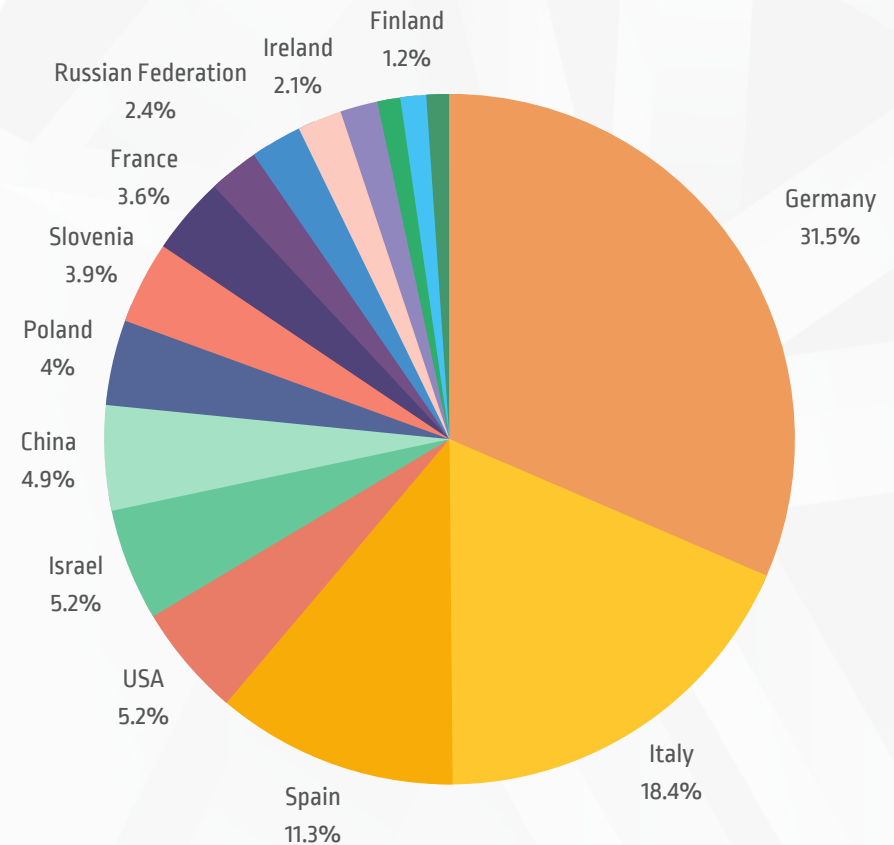
SPC (Special Polymers and Chemicals) Sales

SPC products were delivered to 215 domestic and 187 international customers. 66% of the exports in 2012 were made on contract terms with 34% on spot terms.

Filament Sales

All of our domestic and international sales are on the spot terms. Filament products were delivered to 130 domestic and 12 international customers.

Our export rates by country distribution are presented in the following pie chart.



CUSTOMER HEALTH AND SAFETY

GRI 416-1



Our company is a world's leading producer of polyester-based polymers, specialty polymers and semi-products. We maintain our leadership position in offering our customers a wide range of products and the highest quality products. Since 1966, we have been strengthening our technical know-how and innovation culture through continuous investments. In this way, we continue to grow by increasing our product capacity. Our priority in all our projects is to develop products and processes that are sensitive to human and environmental health while conducting research to reduce and prevent environmental pollution.

Throughout our meticulously managed production network, we also take a pioneering role in waste management. Considering every stage of our products' life cycle, we conduct recycling efforts. In particular, we direct our non-conforming products and secondary quality product waste to our sister company within Erdemoğlu Holding, named Merinos, ensuring the reuse of our process waste in carpet production. In the year 2022, a total of 1,149.715 tons non-conforming products and secondary quality product waste were sent to Merinos for reuse purposes. We are striving to achieve our zero waste goal and using our resources efficiently.

We support our sustainable product management by making significant investments in R&D. As a product that we developed in this context, SASA Plus 88™ is sensitive to the environment and human health.

In 2022, there were no cases of non-compliance with regulations and voluntary regulations regarding the health and safety impacts of products and services at SASA.

Fiber Facility, one of the strategic businesses of SASA Polyester San. A.Ş signed an agreement with a third-party provider for the Hygienic Plant investments made in September 2021. While the sales rate in the range of products in that plant was 25% before becoming a Hygienic Plant, this increased to 55-60% after the Hygienic Plant was opened.





LABELLING AND PRODUCT QUALITY STANDARDS

We ensure the quality and reliability of our products with international standards in the ecosystem in which we operate by offering products in line with the needs of our customers and in accordance with the requirements of the age.

We provide product information and labeling in accordance with all international and local regulations. We verify the compliance with the requirements of the "Communiqué on Food Grade Plastic Materials and Materials" by conducting annual migration analyzes on our products produced as raw materials for food packaging. As part of "FSSC Food Safety" certification works, we aim for full compliance in food packaging raw material production during 2022. Safety data sheets (MSDS) providing environmental, occupational safety, composition, etc. data in 16 articles are available for all our product groups and do not contain "harmful" statements. We ensure reliability in all our product groups by providing analysis certificates containing technical information to our customers.

FSSC Food Safety Certificate is obtained in 2022. In addition, we have achieved our goal of preparing a 'vegan statement' for our food grade and hygiene products, which we had noted in last year's sustainability report.

Please [click here](#) to access our Food Safety Policy. Please [click here](#) to access all certificates of our products.

Vegan Statement

We have completed our goal of preparing a 'vegan statement' for our food contact and hygiene products, which we gave in our sustainability report last year.



FSSC Food Safety Certificate

The composition of our products that may be in contact with food meets the requirements of human health and food safety in accordance with national and international standards.

Oeko-Tex Standard

The ingredients of our products are tested, confirming that our product does not have any negative effects on human health in accordance with the international standards. Please [click here](#) to access.

REACH Regulation

Our Polymer Chips range is produced in compliance with the REACH regulation, an EU Regulation developed to prevent risks of chemicals on the human health and the environment. Please [click here](#) to access.

Allergen Testing

According to the European Union Regulation 1169/2011, our PET BG polymer products have been subjected to and successfully passed the allergen tests confirming that our products are not exposed to any allergens (gluten, dairy products, peanuts, sesame, etc.). Please [click here](#) to access.

Food Grade Production

Adopting a GMP (Good Manufacturing Practices) perspective, we frequently take samples throughout production and subject these samples to tests. The purpose of the tests is to maintain our quality at high standards and to facilitate traceability. We store all the data we obtain in accordance with ISO standards. Our related products conform to the US FDA 21 CFR [Code of Federal Regulations Title 21]. Please [click here](#) to access.

ISO 9001 Quality Management System

We have a worldwide-recognized ISO 9001 Quality Management System in order to increase our customers' expectations, needs and customer satisfaction. [Click here](#) to access.

OUR CUSTOMER RELATIONS PRACTICES



Our customer-oriented service model is centered on quality, on-time delivery, environmental and social sustainability and an approach that aims to meet the expectations of our customers. We aim to continuously improve our service model through efforts to increase customer satisfaction. We work with all our strength to keep customer satisfaction at the highest level, and we carry out the processes related to the products sold and services provided effectively and quickly in line with the feedbacks of our customers.

- One of our primary goals is to increase customer satisfaction and minimize complaints/problems by designing a production system that fully meets customer demands.

Customer complaints are managed and resolved using the 8D method. Incoming complaints are analyzed by technical experts and forwarded to the appropriate team leaders. The relevant team accurately identifies the root causes and takes the necessary actions to solve the problem. The purpose of the 8D method is to address the problem in a systematic manner, to correctly identify the root causes and to plan effective corrective and preventive actions.

Complaints are monitored through monthly internal evaluation meetings. Complaints are evaluated together with senior management at Management Review meetings. In 2023, we aim to have zero refund compensation amount

We target at 52% improvement and zero recurring complaints compared to the previous year, monitoring them on a quarterly basis.

Thanks to our Customer Complaints System, we maintain our company's service quality and find fast and effective solutions to our customers' complaints.

Complaint Type	Target Resolution Period (Days)	Average complaint resolution times			
		2019	2020	2021	2022
Production	20	20	1	7	10
Transportation	10	8	7	6	7
Service	7	5	9	6	3
Technical Specification	5	4	3	-	-



5

SOCIAL
SUSTAINABILITY

SOCIAL SUSTAINABILITY APPROACH



Our approach to social sustainability prioritizes education, health, well-being, human rights, safety, quality of life and community relations, focusing on the key issues that ensure the sustainability of society. Therefore, we work together to fulfill our commitments, formulate our policies and contribute to the development of society and the reduction of inequalities through our projects.

We carry out our social sustainability activities under the leadership of the Sustainability Committee, which communicates with relevant departments. Our activities and goals are periodically shared with senior executives and the Board of Directors.

In this section, we provided explanations on Occupational Health and Safety, Human Rights Approach, Human Resources Management, Employee Rights, Community Relations and Social Investments in line with our activities in 2022.



OCCUPATIONAL HEALTH AND SAFETY

GRI 3-3, GRI 403-1, GRI 403-6



At SASA, we strive for continuous improvement in our health, safety and environmental performance. Our goal is to achieve protection from all risks of injury, occupational illness, accidents and environmental pollution not only in theory but also in reality. Our goal is to be an international leader in occupational health and safety and to continuously improve our performance to the highest level.

In light of our commitments stated in our Occupational Health and Safety Policy:

We act in accordance with Turkish Occupational Health and Safety Law No. 6331 and comply with all national and international requirements. In addition, we regularly review and improve our OHS management system in accordance with ISO 45001 certification standards.

We identify all OHS risks and potential occupational accidents that may arise from the activities in our facilities. We continuously assess these risks with a proactive approach and take all necessary measures to reduce occupational accidents and occupational diseases. We also consider the health and motivation of our employees when setting our targets.

We recognize that continuous training is important for our development. We support our employees in matters such as emergency preparedness, ensuring, protecting and improving occupational safety and raising awareness. To this end, we provide training based on best practice techniques and provide the necessary resources.

We encourage the participation of our employees and all stakeholders in planning, implementing, evaluating and increasing the performance, continuous improvement and development of our OHS management system in line with sustainability principles. In this way, we ensure continuous improvement in the safety and health of our workplace.

Click [here](#) to access our Occupational Health and Safety Policy.

With our occupational health and safety management system, we apply risk management principles and conduct regular risk assessments in accordance with the Regulation on Occupational Health and Safety Risk Assessment. These assessments differ according to the hazard class of the workplace.



OUR GOAL;
ZERO ACCIDENTS
ZERO RISK!

OCCUPATIONAL HEALTH AND SAFETY

GRIGRI 3-3, GRI 403-1, GRI 403-6



We have established a Risk Assessment Team in accordance with the Occupational Health and Safety Risk Assessment Regulation. Our team consists of SASA employer or employer's representatives, occupational safety experts, occupational physicians, employee representatives, support team and SASA unit representatives. This team conducts risk assessments and process management. In the risk assessment report, we identify the persons in charge and deadlines for the prevention of the identified risks and follow the process. In addition, we train and assign SASA OHS committee members in accordance with the "Regulation on Occupational Health and Safety Committees". We organize periodical meetings within the legal periods and notify our OHS board members at least 48 hours in advance.



As part of our Occupational Safety Improvement Works:

- We increased the number of horizontal and vertical lifelines to prevent falling from height.
- We installed an on-vehicle safety system in 5 different delivery areas in order to prevent falls from height.
- In order to ensure safety on the loading ramps, we have started trials of the loading ramp safety system, and we aim to increase the number throughout the factory.
- We started a blue light system for forklifts in order to prevent accidents with material damage and injuries.
- In order to ensure traffic safety, we placed traffic direction signs in our facility.
- We started a pilot radar application to ensure traffic safety.
- We installed a suction fan system in welding workshops to protect against harmful fumes generated during welding work.
- We launched the red-green light system to ensure entry-exit control at industrial doors and to prevent accidents.
- We installed televisions with OHS awareness videos in all our enterprises.
- As of May, we started working with DSS+. Following the audit of the PTA construction site, Process Safety Standards were developed.
- We organized PSM (process safety system) field and classroom trainings for 49 employees with Dupont DSS team.
- We started online Disaster Awareness Trainings for Workplaces in cooperation with TOBB and AFAD for our blue-collar employees.
- In addition to forklift driver certificates, we received certified trainings from the Ministry of National Education and private training institutions for our employees using scissor lifts (manlift, octopus machine). We do not have any uncertified personnel.
- We have completed EKAT trainings and Energy Manager trainings according to the High Electrical Voltage Regulation.
- We started to work on illuminated poles in order to raise awareness on emergency muster points.
- The Ministry of Labor and Social Security and the General Directorate of Occupational Health and Safety (İSGÜM) carried out good practices in our factory, which was selected as a pilot facility as part of occupational hygiene improvement studies.
- Our employees in our search and rescue team received training from AFAD.
- We have all our work equipment inspected by third parties.

OCCUPATIONAL HEALTH AND SAFETY

GRI 3-3, GRI 403-4, GRI 403-5, GRI 403-7



OHS TRAININGS

As SASA, we provide all necessary trainings to ensure that our employees are aware of occupational health and safety issues and work in a safe environment in the workplace. Our employees receive "Safety Culture" training on general, health, technical and job-specific subjects under the Regulation on the Procedures and Principles of Occupational Health and Safety Trainings during recruitment as well as in legally required periods. In addition, Basic Occupational Health and Safety Training is also provided during the recruitment process. Procedure and instruction training is also provided to our employees for their relevant duties and responsibilities.

In addition, periodic trainings on topics such as 5S Occupational Safety, Emergency Response, OHS Supervision, Radiation Protection, Working at Height, Work Permit System for Special Jobs, Environment, Personal Data Protection, Work Discipline are also provided according to the needs of our employees. In accordance with the Occupational Health and Safety Risk Assessment Regulation, our employees, employee representatives, employees from other workplaces and their employers are regularly trained on the health and safety risks that may be encountered in the workplace.

All our employees can access information and documents related to occupational health and safety through the SASAİLE information system. In accordance with the "Regulation on the Duties, Authorities, Responsibilities and Training of Occupational Physicians and Other Health Workers", our employees are regularly trained on the risks in the workplace, health surveillance, recruitment and periodic examinations, and provided with health examinations.

Process Safety Management (PSM) is the implementation of management systems and controls for a chemical process. In this way, potential hazards in the process are identified, understood and controlled, aiming to prevent injuries and incidents for factory workers, surrounding communities and the environment. In this context, we received PSM training at SASA together with our employees in our chemical processes.





Supplier Safety Program

Contractor Safety Procedure

Contractors are only allowed to work in our plants and facilities only after workplace hazards and risks are evaluated and necessary precautions are taken. Emergency plans are developed to ensure preparedness for unexpected situations, emergency response teams are identified and necessary trainings are provided. Occupational health and safety inspections and controls are carried out daily and any nonconformity is monitored.

Employee health and safety is of utmost importance and contractors are obliged to make the necessary arrangements. Before starting the work, training and organization of employees are carried out and workplace risks are assessed. In addition to OHS training, employees also receive Toolbox on-the-job training. Inspections are carried out daily. In addition, employees' social needs such as eating, drinking, showering, lavatory, and resting are met by us.

Training, accident and inspection performance reports are shared with senior management every month.

We aim to reduce the number of occupational accidents by increasing precautions and awareness-raising activities for both our employees and subcontractor workers and to reduce the LTIR rate to below 1.

Life Saving Golden Rules Procedure

The Life Saving Golden Rules Procedure covers SASA employees, contractors, visitors (suppliers, vendors, delivery drivers and customers/regulators) and all third parties doing business on behalf of SASA. The purpose of the procedure is to ensure that the health of our employees is not impaired and protected against injuries, to ensure, protect and improve occupational safety, to eliminate hazards and reduce OHS risks, and to support continuous improvement by increasing awareness through training.

Life Saving Rules aim to ensure the safety of our employees, contractors and visitors. It also specifies common activities that could potentially result in serious injury or death if the rules are not followed during on-site/off-site work.

In 2022, we provided training to 4580 people within the scope of Supplier and Visitor Security.

With our Contractor Safety and Performance Management Program:

- It is ensured that contractor employees comply with the rules determined according to EBRD, IFC standards and other legal regulations.
- Health and safety are prioritized in the selection of the contractor company. Health and safety performance in previous work is examined.
- Occupational health and safety inspections are carried out daily during the working period.



OCCUPATIONAL HEALTH AND SAFETY

GRI 403-3



EMERGENCY AND FIRE SAFETY SYSTEM

In case of an occurrence of a risk or emergency, we have an emergency procedure for the development of emergency plans, protection, evacuation, fire-fighting, first aid and other intervention, the safe management of these situations and the identification of employees to be assigned. Procedures and principles such as management of risks defined within the management system and determination of responsibilities are specified in the procedure. Each employee is responsible for the Emergency Procedure within the scope of their department.

In our responsibility area, we manage fire safety systems based on automatic detection, automatic extinguishing and human intervention with a young, dynamic and trained team. Our main staff consists of 16 people and an experienced operational staff of 67 people, which we call the Emergency Response Team (ERT). In addition, our support staff consisting of Search and Rescue and Evacuation, Fire Fighting and First Aid teams also coordinate our activities. Our fire brigade personnel have all the necessary licenses, certificates and trainings.

Our vehicle fleet includes 4 full-fledged fire trucks, 2 10,000-ton fire water storage tanks, more than 7,800 fire extinguisher cylinders, automatic fire detection and alarm systems, automatic water-gas and foam fire extinguishing systems, chemical absorbent KITS and other equipment. Our fire safety system is monitored 24 hours a day with a computer program.

We frequently conduct drills to be prepared for emergencies at any time.

Scheduled Drill	Drills Done	Percentage
2019 / 52 Drills	52 Drills Done	100%
2020 / 56 Drills	56 Drills Done	100%
2021 / 52 Drills	52 Drills Done	100%
2022 / 51 Drills	51 Drills Done	100%



HUMAN RIGHTS APPROACH

GRI 3-3, GRI 407-1, GRI 408-1, GRI 409-1



As SASA Polyester Sanayi A.Ş., we fulfill our commitments to ensure that human rights and fundamental liberties are embraced and implemented by all our employees and stakeholders. We ratify and commit to all articles of the United Nations Global Compact, the European Convention on Human Rights, the Universal Declaration of Human Rights, the OECD General Principles for Multinational Enterprises, and the International Labor Organization (ILO) Declaration on Social Justice for Globalization. In addition, as part of the United Nations Sustainable Development Goals (SDGs), one of our main objectives is to fight against major problems such as poverty, hunger, gender inequality, climate crisis and discrimination.

As part of our Human Rights Policy, we fulfill our commitments on child labor, recruitment, working hours, remuneration and wages, discrimination, freedom of association and collective labor agreement, prevention of harassment and maltreatment, bribery and corruption, forced and compulsory labor and training.

SASA carries out its management and activities on human rights in cooperation between the Sustainability Committee and the Human Resources Department. Accordingly, we regularly convene for the implementation of our Human Rights Policy, informing our employees and raising awareness within the company.

Click [here](#) to access our Human Rights Policy.

We care that all our stakeholders respect human rights and we reflect our values in our selection of suppliers and subcontractors. In addition to our employees, we expect our business partners and all our stakeholders to share and implement these values.

We regularly update our human rights trainings by taking into account the opinions of all our stakeholders and continue our efforts to further increase these trainings in the future. In this context, we provide human rights training to our newly recruited colleagues in addition to OHS training. In 2022, we provided human rights training to 646 employees. Our aim is to ensure that all our employees are conscious and sensitive about human rights and to adopt these values at all levels of our company.



HUMAN RESOURCES MANAGEMENT

GRI 2-7, GRI 2-8, GRI 2-30, GRI 3-3



We believe that our investment in human resources will yield great benefits in the long run. All our team members, including company employees, contracted personnel, subcontractors, are considered as a valuable part of SASA. Therefore, one of our main objectives is to increase the motivation and productivity of our employees by investing in their training, development and welfare.

SASA's long-term goals are based on maintaining and sustaining the company culture, know-how and core values in close cooperation with its employees. These values include basic principles such as customer orientation, innovation, sustainability and quality. By transferring these values to our team members, our company provides a strong foundation for employees to be more motivated in their work. At the same time, our investments in human resources contribute to SASA's growth and sustainability.

By adhering to the ISO 45001 standard, we ensure that our employees work in a healthy and safe workplace environment by identifying and minimizing the risks that may arise from our activities, and we provide the necessary conditions to ensure employee satisfaction and development through fair human resources processes.

Our Human Resources Policy sets out the basic principles of recruitment, performance, training, development, orientation, talent management, labor relations, payroll, tally and all other Human Resources and Industrial Relations practices. As part of this Policy,

- No discriminatory practices - based on race, color, belief, ethnic and national origin, religion, gender, marital status, age, physical disability, 3% of our employees have physical disabilities, or similar reasons - is allowed during recruitment by any means whatsoever. Click [here](#) to review our Diversity Policy, which includes our commitments to create and maintain a work environment where employees are treated with dignity and respect and where there is no discrimination.
- While supporting cultural diversity, qualified workforce organization is planned in light of the principles of equal opportunity and fair treatment.

- Employees are provided with continuous personal and professional development activities to ensure the continuous development of their competencies, knowledge and skills depending on their positions and to realize their potential.
- SASA's goal is to develop practices and approaches to increase corporate loyalty and create a common corporate culture in a safe, healthy working environment where employees can reveal their potential and where SASA Work Ethics Values are applied.
- As a basic principle in the management of Remuneration Policy, SASA adopts transparency, fairness, encouraging sustainable success and rewarding employees, and conducting a policy in line with its long-term goals.
- The conditions, terms, rights and responsibilities of blue-collar employees are defined by collective bargaining agreements signed between SASA and the Petrol-İş Union, and relations between employees and the employer are managed by union representatives.
- White-collar employees, especially new hires, have weekly meetings with the Human Resources department to provide feedback on SASA conditions, improvement opportunities and best practices, and the relevant managers provide feedback to the employees at least once a month on their career plans and regularly report their views on individuals to the General Manager.
- SASA complies with the International Labor Standards on working hours - ILO (International Labor Organization) Working Hours (Industrial) Convention, 1919 (No:1) and (Commercial and Office) Convention, 1930 (No:30). Overtime work is subject to and regulated by the Labor Law No. 4857.
- SASA employees can send their wishes and complaints by e-mail or to the wish, complaint and suggestion boxes in the factory area and all applications are submitted to the Board of Directors for follow-up.

Click [here](#) to access our Human Resources Policy.

HUMAN RESOURCES MANAGEMENT

GRI 3-3



With the Recruitment Policy included in our Human Resources Policy, we set out the principles of the personnel selection, placement and retention processes for the existing or new positions in our organizational structure, aiming to encourage employee motivation and loyalty. At the same time, we keep our stakeholders informed of all our work ethics rules with SASA Code of Conduct Rules.

Our Code of Conduct

Non-Discrimination

The number of discrimination cases occurring within SASA is zero. You can find detailed information about the definition of discrimination cases and the corrective measures taken in the [SASA Business Ethics Rules Policy](#).

Honesty

Integrity and honesty are our primary values in all business and work processes and stakeholder relations.

Privacy

SASA employees care about the protection of confidential information and private information of the Company, the confidentiality and private information of customers, employees and related persons and institutions, share this information with the relevant persons only within the specified authorizations and do not allow any commercial benefit to be derived, including insider trading; they also do not take out the confidential information and documents they have due to their duties when leaving the Company.

Protection of Personal Data

It is strictly forbidden to share, transfer, disclose or misuse special and general categories of personal data electronically without the written consent of the data subject and the employer; such data may be shared with the employer or employer's representatives, employees, subcontractor employees, customers, suppliers, third parties, guests, job applicants, interns and real persons related to company activities only after obtaining their written, audio, visual or video consent.

Conflict of Interest

SASA employees avoid conflicts of interest and do not seek personal benefit and do not use the name and identity of SASA for personal benefit. In case of potential conflict of interest, they consult with their managers, Human Resources and Industrial Relations or Ethics Committee Advisor to protect the interests of the parties through legal and ethical methods.

Our Responsibilities

Besides our legal obligations, we exercise due diligence in fulfilling the following responsibilities towards our customers, employees, shareholders, suppliers and business partners, competitors, society, humanity and the name of SASA:

Our Policies supporting our Code of Conduct are listed below.

- Conflict of Interest policy
- Gift Acceptance Policy
- Confidential Information Production Policy
- Policy on Establishing and Maintenance a Fair Working Environment
- Company Stock Trading Policy
- Anti-Bribery and Anti-Corruption Policy

Click [here](#) to access SASA Business Ethic Rules Policy

HUMAN RESOURCES MANAGEMENT



In order to achieve our Sustainable Strategic Development Goals, we ensure that all our employees and stakeholders convey their wishes, suggestions and complaints about our company, 24/7 and anonymously. In addition, wishes, suggestions and complaints are forwarded to our system in Turkish and English.

We evaluate every application we receive by filtering our company's ethical principles and sustainable institutionalism, and we take the necessary actions. We work to strengthen the sense of belonging to our company of all our stakeholders within or outside the borders of our facilities. We do not retaliate against any of our stakeholders for their wishes, suggestions or complaints.

Please [click](#) to access our Corporate Communication/Complaint/Suggestion Policy, which we designed for the effectiveness and reliability of our company's internal control system. We attach importance to this policy in order to ensure transparency and open communication between our company and our stakeholders.

All wishes, suggestions and complaints are delivered to us through our boxes and web page. These messages are evaluated by the SASA Board of Directors every 15 days and necessary actions are taken in order to increase our contribution to sustainability. All the messages we received in 2022 were meticulously examined and all of them were successfully resolved.

Year	Number of Wishes/Complaints/ Suggestions
2019	278
2020	286
2021	213
2022	213



HUMAN RESOURCE MANAGEMENT

GRI 2-19, GRI 2-20



Talent & Skill Management

We realize talent and skill management within the company by providing suitable conditions for our employees to self-train and develop their talents/skills. SASA Talent&Skill Management Regulation sets out the knowledge, skills, experience and competencies of our employees, enabling career management, and training our employees from within the company for management positions. In addition, we support the talents of our employees, identify their strengths and weaknesses and help them develop through SASA Academy and Personal and Professional Development trainings. With all these activities, we aim to increase the loyalty of our employees and work together for many years.

Regulation on Remuneration, Reward and Suggestion System

Transparency, fairness and encouraging sustainable success form the basis of our remuneration policies. We have an award system to support employee activities that add value to SASA and to encourage our employees to put forward various project ideas. We reward all our employees based on their annual performance.

Employee Support

We strive to stand by our employees in every period of their lives, also outside of work. We provide incentives to support their family life and share their happiness with messages and time off on their special days. We provide bonus payments to our employees during holidays. In 2022, we also provided bank promotional payments to our employees.

We also strive to provide the support they may need in case of death, health or work accidents, in addition to their good days.

Benefits

We provide our employees with benefits such as individual retirement and health benefits. Our employees, who have completed their sixth month, can be included in the Private Pension System with Company Contribution voluntarily at the rate of 2.25% of their gross wage. Within the scope of the health rights we offer, our workplace health unit and private dental polyclinic agreements operate. In 2022, a protocol was signed with a private hospital to provide a 25% discount for SASA employees. The leave period we provide to our working parents is 5 weeks for our employees who are fathers and 16 weeks for our employees who are mothers, by the provisions of Labor Law No. 4857.



HUMAN RESOURCE MANAGEMENT

GRI 404-2, GRI 404-3



PERSONAL/ PROFESSIONAL DEVELOPMENT TRAININGS

At SASA, we attach importance to the personal and professional development of our employees. For this reason, we provide personal and professional training on topics such as decision-making and initiative, goal management, industry 4.0, creative and effective presentation techniques, and customer relationship management.

SASA Academy is a platform that offers trainings to our employees to increase their technical, professional and personal skills. In this context, we offer various trainings for the development of professional skills such as production, engineering and inspection. Within the SASA Academy, we provide training on issues such as quality assurance, process technology, engineering integrity and operating procedures. Thus, we aim to increase the professional skills of our employees and ensure their development.

In 2022, we increased our personal and vocational training hours by approximately 256% compared to 2021, by providing 72,103 hours of training to our employees.

SASA Academy Trainings

1. MOC - Management of Change
2. Emergency Planning
3. PSSR - Prestart-up Safety Review
4. Operating Procedures and Safe Practices
5. Incident Investigation and Reporting
6. Contractor Safety and Performance
7. PHA - Process Hazard Analysis
8. Process Technology
9. PRSM Leadership

Personal and Professional Development Trainings

1. Decision Making and Initiative Skills Training
2. Coaching Skills Training for Managers
3. Motivation Seminars
4. Effective Feedback and Performance Management Training
5. Management by Objectives Training
6. Managing Millennials Training
7. Time Management and Planning
8. Communication and Body Language
9. Professional Management Skills Training
10. Anger and Stress Control
11. Written Communication and Reporting Training
12. Cost Management Training
13. Meeting Management Training
14. Industry 4.0
15. Creative and Innovative Thinking (Innovation) Techniques
16. Finance for Non-Financiers (Basic Budget Reading)
17. Negotiation Skills
18. Emotional Intelligence
19. Creative and Effective Presentation Skills
20. Customer Relationship Management
21. Oratory for Professionals
22. 3 Ways to Increase Employee Engagement to Improve Financial Results
23. Leader or Manager?
24. Adaptation to Change

A total of 998,276 TL was invested throughout 2022 for the personnel trainings.

EMPLOYEE RIGHTS

GRI 3-3, GRI 401-2, GRI 406-1



Child Labor: We do not have employees under the age of 18 in our company considering the healthy development of children and respect for their right to education. We act in accordance with the procedures and principles of employing young workers, and we ensure that people are not forced to work against their will at any stage of production.



Working Hours: We comply with applicable laws and regulations during working hours and overtime hours to ensure an efficient working environment within the framework of respect for human rights



Bribery and Corruption: We do not accept bribery, corruption, and/or commission under any circumstances. We act in accordance with the established and published SASA Code and Policy of Business Ethics.



Training: The training level of the employees determines the general level of the company. With this understanding, we hold in-house or external training programs in order to increase the occupational health and safety awareness of our employees and support their professional and personal development, and we ensure the continuous development of the company due to the development of the employees through the training programs held



Wages and Payments: We take the minimum wage as the subsistence level that employees can afford to cover their living expenses, and we ensure that overtime wages are paid by making additions as required by law



Recruitment: In order to ensure the continuity of ethical criteria, we consider compliance with company rules and company social compliance requirements as necessary and essential criteria, as well as technical and professional knowledge during recruitment. Starting from the recruitment phase, we enforce policies for the prevention of discrimination, harassment, and ill-treatment.



Promotions : It is executed accordingly to our Promotion Procedure, and by the scope of the procedure, this promotions will be executed for the contribution and performance of the personnel, in the first month of the year, January.



Prevention of Harassment and Maltreatment: We ensure that the working environment is peaceful and that there is no verbal, physical, or psychological harassment or coercion to ensure that our employees work happily



Forced and Involuntary Servitude: We ensure that the employees may not be forced to work due to contractual obligation or debt and that they must be voluntary to work



Discrimination: Based on the equal rights of all employees, we undertake that there will be no discrimination in terms of employment, compensation, access to training, and promotion or termination of employment or forcing to retirement based on race, social class, religion, national origin, gender, or political affiliation.

GRI 3-3, GRI 411-1, GRI 413-1

- Acting in cooperation with social groups and proactively addressing socio-economic risks
- Doing all necessary work to ensure positive environmental and social impacts
- Minimizing the social, cultural, social, economic and environmental impact of the temporary camps created for our sub-employees by taking into account international and national standards
- Under our Community Health and Safety Management Plan, improving the social performance of our activities by monitoring Key Performance Indicators (KPIs) and transparently sharing our work on this issue with our stakeholders

Under the Environmental Social Impact Assessment of the PTA Production Facility Project, main stakeholder groups were identified and 72% of them were interviewed. Neighborhood headmen were interviewed for refugees, daily agricultural workers, illiterate women and low-income households who were identified as vulnerable groups. It was concluded that social risks related to traffic density in settlements, the growing migrant worker population and public health should be assessed. Collaboration with local communities was identified to improve traffic safety in child-dominated areas. Construction of the PTA plant started in September 2021 and operations are planned to start in 2023. It is estimated that there will be 6,000-6,500 employees during the construction phase and approximately 400 employees during the operation phase. The company has set a target of 50% local employment, prioritizing the employment of local people.

- Sustainable use of natural resources, taking into account air, water and land ecosystems
- Protection of fauna and flora that constitute biodiversity in the region
- Defending fundamental human rights and respectful living conditions in line with laws and regulations
- Providing education, food supply, employment and opportunities to local communities, thereby supporting community development
- Voluntary activities for the socialization of disadvantaged groups
- Carrying out activities in a way that respects the traditions and customs of the local communities, especially respecting women and children
- Establishing an interactive and understandable dialog with the public through regular meetings, surveys, forms, telephone and e-mail communication channels
- Building transparent, respectful and trusting social bonds and partnerships
- Providing timely feedback for the active functioning of the complaint and suggestion mechanism and providing the necessary resources for the implementation of corrective and preventive actions

In accordance with the SASA Donation and Contribution Policy, we make donations and grants to individuals, organizations and public institutions in the fields of education, culture, arts, environment and sports within the scope of corporate social responsibility, subject to the provisions of the Capital Markets Law and regulations. The donations and aids are realized by management decision in accordance with SASA's vision, mission, policies and ethical principles. Donations, which are divided into cash and in-kind donations, are submitted to the General Assembly and the total limit of donations is determined.

SASA Memorial Forest

SASA
POLYESTER SAN. A.Ş.
HATIRA ORMANI
SASA POLYESTER SAN. A.Ş. Katkılarıyla
Orman Genel Müdürlüğü
Tarafından Ağaçlandırılmıştır.
AĞAÇLA - 2022
www.sgm.gov.tr

Erdemoğlu Holding provides scholarship aid to the children of SASA employees studying at a university to provide professionals to society and to reduce the financial burden on the education of the children of its employees. Financial support has been provided to a total of 1043 students since 2016.

Erdemoğlu Holding, which has made its name known to the world with SASA in the petrochemical sector and Dinarsu and Merinos brands in the carpet sector, laid the foundation of a Sports High School in the Akçabat district of Trabzon province. This facility includes a 4-storey high school with 16 classrooms, a 2-storey multi-purpose sports hall and a 5-storey student boarding house for 144 students.



For a bright tomorrow with an inspiring history...

SOCIAL INVESTMENTS

GRI 413-1



SASA Mehmet Erdemoğlu Kreşi ve Gündüz Bakım Evi

With the SASA Mehmet Erdemoğlu Daycare Center, the foundations of which were laid in 2020, we aim to ensure that our employees can safely leave their children during working hours and to adapt children to formal education.



Day Care Centers

Bahçeşehir and Haydaroğlu Day Care Centers, which we started to work on in Adana - Seyhan, will be put into service in 2023.



SASA in Campus

As SASA, we stand by our university students with our support that increases exponentially every year. We are in constant contact with the career centers of our universities and publish job postings.



We took part in the 2022 Management Studies with Executives Career Summit organized by Boğaziçi University - Engineering Club and the 2022 Fall Career Fair of Middle East Technical University (METU). We also share SASA's experience in the industry with as many university students as possible through technical trips and conferences.

ADASO Academic Studies

In 2023, we aim to start training activities with ADASO Academy, the Learning Platform of Adana Chamber of Industry.

Incubation Center

We established the Incubation Center library of the Adana Organized Industrial Zone Directorate and continue to contribute to the development of the industry by providing mentoring services.

SOCIAL INVESTMENTS

GRI 413-1



Sarıhamzalı Funeral House

In 2022, all furniture placements of the condolence area were completed and put into operation.



Techno-city Collaboration



As members of the SASA Board of Directors, we held a cooperation meeting with Çukurova Techno-city.

+1 We stand by you

With the slogan "+1 We stand by you", we contribute to the education of people with Down Syndrome in cooperation with the Down Syndrome Association of Turkey.

İşkur Training Program:

With our collaboration with İşkur, we provide 3-month trainings to candidates and then provide employment opportunities.

Pakistan Kindness Train



After the flood disaster in Pakistan, we donated 3000 food boxes and 100 tents to the kindness train carrying basic living supplies to the affected people.

Earthquake Mobilization

Kurucumuz, onursal başkanımız rahmetli **Mehmet ERDEMOĞLU**'nun ufkumuzu aydınlatan "**Servetin sınırı yoktur, mükâfatı vardır.**" prensibindeki "**Servetin mükâfatını**" vatanımıza, milletimize ve devletimize daha iyi ve daha çok hizmet edebilmek olarak telâkki ediyoruz.

Bu kapsamda aziz milletimizin yaşadığı elim deprem felâketinde meydana gelen yaralana merhem olabilmek maksadıyla, depremzedelerimize dağıtılmak üzere; **AFAD'a 130 bin adet battaniye, 100 bin metrekare halı aynı, 100 milyon TL'de nakdi destekte bulunmanın yanı sıra, depremin yaşandığı (Adana, Adıyaman, Gaziantep) şehirlerimizde ikâmet eden 10 bin çalışanımıza 10'ar bin TL nakdi destekte bulunuyoruz.**

Erdemoğlu Holding olarak maddi ve manevi bütün imkânlarımızla her zaman aziz milletimizin yanında ve emrinde olmaya devam edeceğiz. Bu vesileyle elim deprem felâketinde hayatını kaybeden vatandaşlarımıza yüce Allah'tan rahmet, yaralılarımıza acil şifalar, ailelerine sabırlar diliyoruz.

İbrahim ERDEMOĞLU
Erdemoğlu Holding
Yönetim Kurulu Başkanı

Our company mobilized its personnel, construction equipment and all its facilities to the earthquake zone for the earthquakes of magnitude 7.8 and 7.5 that occurred in Kahramanmaraş on February 6, 2023 and February 7, 2023, respectively.



6

PERFORMANCE
INDICATORS

ENVIRONMENTAL PERFORMANCE INDICATORS

Emissions

Scope 1- GHG Emissions (tCO2e)				
Years	2019	2020	2021	2022
Scope 1	300,024	391,641	488,358	494,823
Scope 2	124,862	215,607	286,273	275,152
Scope 3	0	655	305,776	383,106
Total	424,886	607,903	1,080,407	1,153,083

GRI 305-1, GRI 305-2, GRI 305-3

Total GHG Emissions Intensity (Scope 1+2) (tCO2e/ton product)				
2019	2020	2021	2022	
0.671	0.608	0.498	0.487	

GRI 305-4

Reduction of GHG emissions - offset projects(CO2e)				
2019	2020	2021	2022	
9,609	12,087	9,935	9,761	

GRI 305-5

Significant Air Emissions(ton)				
	2019	2020	2021	2022
Dust Emissions	32.4		232	
Sox	490		834	
NOx	747.3		1,423	
VOC (Volatile Organic Compounds)	2.1		8.5	

Significant air emission measurements are carried out every two years.

GRI 305-7

Energy

Energy consumption within the organisation (GJ)					
		2019	2020	2021	2022
Non renewable Sources	Natural Gas	2,163,431	2,430,288	3,810,196	3,427,587
	Coal	1,074,276	1,723,816	1,772,628	1,926,546
	Diesel	12,687	21,780	25,645	28,700
	LPG	2,219	2,424	4,638	8,101
	Trade waste	147,933	144,291	174,632	134,220
	Total	3,400,546	4,322,599	5,787,739	5,525,154
Renewable Sources	Biomass	70,361	116,325	43,167	14,971
	Total	70,361	116,325	43,167	14,971

GRI 302-1

ENVIRONMENTAL PERFORMANCE INDICATORS

Energy

	2019	2020	2021	2022
Electricity Consumption [GJ]	964,380	1,659,276	2,204,467	2,119,384
Total Energy Consumption [GJ]	4,435,287	6,098,200	8,035,373	7,665,249

GRI 302-1

	2019	2020	2021	2022
Energy Intensity [GJ/ton production]	7.00	6.11	5.17	4.85

GRI 302-3

		2019	2020	2021	2022
Reduction of Energy Consumption [GJ]	Coal	0	0	25,405	
	Natural Gas	502	0	22,250	96,743
	Electricity	4,142	2,510	6,661	47,056

GRI 302-4

*The energy consumption amounts saved with efficiency projects are presented.

Water and effluents

	Water withdrawal (m3)			
	2019	2020	2021	2022
Groundwater	3,003,898	4,423,154	5,223,021	4,967,016
Total withdrawal amount	3,003,898	4,423,154	5,223,021	4,967,016

GRI 303-3

	Water discharge (m3)			
	2019	2020	2021	2022
Surface Water	2,438,197	2,885,163	3,409,464	3,214,998
Total discharge amount	2,438,197	2,885,163	3,409,464	3,214,998

GRI 303-4

	2019	2020	2021	2022
Total water consumption from all areas (m3)	565,701	1,537,991	1,813,557	1,752,018

GRI 303-5

ENVIRONMENTAL PERFORMANCE INDICATORS

Materials

Materials used(kg)					
Non-renewable materials used (kg)	Material Type	2019	2020	2021	2022
	PX	121,788,000	119,857,000	144,764,000	103,010,650
	PTA	145,301,000	452,459,000	818,808,000	925,989,161
	MEG	139,268,000	258,622,000	414,446,000	428,551,469
	BDO	6,929,000	6,378,000	11,440,000	11,235,484
	TEH	1,556,000	6,435,000	9,560,000	5,729,955
	IPA	0	0	2,512,000	2,563,371
	Imported POY	407,000	12,256,000	0	23,600
	Total	415,249,000	856,007,000	1,401,530,000	1,477,103,690
Renewable materials used (kg)					
	MEOH	76,450,000	74,714,000	87,562,000	64,526,732
	Total	76,450,000	74,714,000	87,562,000	64,526,732

GRI 301-1

	2019	2020	2021	2022
Recycled raw materials input rate [%]	15.55%	8.3%	5.88%	6.38%

GRI 301-2

Reclaimed products and their packaging materials (kg)					
Renewable packaging materials	Material Type	2019	2020	2021	2022
	Metal	292,781	233,286	129,150	101,500
	Plastic	1,161,848	2,426,865	3,439,194	4,220,594
	Paper	1,131,853	3,856,486	7,758,646	8,544,356
	Wood	3,627,403	6,238,085	19,726,739	16,876,601
	Composite	9,973	15,054	17,270	10,321

GRI 301-3

ENVIRONMENTAL PERFORMANCE INDICATORS

Waste

	Waste generated (tons)			
	2019	2020	2021	2022
Hazardous Wastes	1,784	1,459	1,854	2,294
Non Hazardous Wastes	6,991	24,205	46,608	62,040
Total	8,775	25,664	48,462	64,334

GRI 306-3

	Disposed Non Hazardous Wastes (ton)			
	2019	2020	2021	2022
Incineration(with energy recovery)	99.48	2.58	2,382.43	4,174.17

GRI 306-5

	Waste diverted from disposal: recycled/recovered non-hazardous wastes(ton)			
	2019	2020	2021	2022
Chemical	1,284	733	814	751
Contaminated Package	32	113	312	161
E-waste	2	2	1	1
Battery	13		18	16
Total	1,332	848	1,146	929

GRI 306-4

	Waste directed to disposal: hazardous wastes (tons)							
	2019		2020		2021		2022	
	Out site	In site	Out site	In site	Out site	In site	Out site	In site
Incineration (with energy recovery)	451	5,890	609	5,745	704	6,953	1,353	5,343
Incineration (without energy recovery)	0	0	1	0	1	0	1	-
Landfill	2	0	1	0	2	0	11	-

GRI 306-5

	Waste diverted from disposal: recycled/recovered hazardous wastes (tons)			
	2019	2020	2021	2022
Paper	343	2,386	3,121	2,502
Plastic	3,966	7,309	7,149	6,907
Metal	1,313	1,730	1,906	2,210
Ash		8,339	28,997	43,927
Wood	1,261	4,426	3,038	2,296
End of life tyre	8	13	12	24
Total	6,892	24,203	44,223	57,866

GRI 306-4

**Our recyclable hazardous and non-hazardous wastes are sent to licensed recycling facilities outside our facilities.*

SOCIAL PERFORMANCE INDICATORS

Employee Number with respect to categories

	Percentage of individuals within the organization's governance bodies by genders (%)			
	2019	2020	2021	2022
Women	0	0	0	18%
Men	100%	100%	100%	82%

GRI 405-1

	Percentages of individuals within the organization's governance bodies by age groups			
	2019	2020	2021	2022
< Age 30	0	0	0	0
Age 30-50	18%	18%	18%	18%
Age >50	82%	82%	82%	82%

GRI 405-1

	Percentage of employees by genders (%)			
	2019	2020	2021	2022
Women	3%	2%	2%	2.9%
Men	97%	98%	98%	97.1%

GRI 405-1

	Percentage of employees by age groups (%)			
	2019	2020	2021	2022
Age <30	34%	53%	49%	44.7%
30-50 Age	62%	44%	47%	52.9%
Age >50	4%	3%	3%	2.4%

GRI 405-1

Employment Types of Employees

		Amount of employee by employment type			
		2019	2020	2021	2022
Total	Full timer	1,974	4,012	4,475	4,742
	Part timer	4	5	2	1
Executive	Full timer	427	576	788	893
	Part timer	4	5	2	1
Technical and Operational	Full timer	1,547	3,436	3,687	3,849
	Part timer	0	0	0	0

GRI 2-7

		Number of employees covered by an OHS Management System			
		2019	2020	2021	2022
Within the scope of OHS	Personnel	1,978	4,022	4,477	4,743
	Subcontractor	4,099	1,378	2,591	13,259
Within the scope of OHS who are covered by such a system that are internally audited.	Personnel	1,978	4,022	4,477	4,743
	Subcontractor	4,099	1,378	2,591	13,259
Within the scope of OHS who are covered by such a system that are externally audited.	Personnel	1,978	4,022	4,477	4,743
	Subcontractor	4,099	1,378	2,591	13,259

OHS = Occupational Health & Safety

GRI 2-8, GRI 403-8

SOCIAL PERFORMANCE INDICATORS

Newly Hired Employees During the Year by Gender and Age

		New employee hires by age group and gender							
		2019		2020		2021		2022	
		Head Count	Ratio	Head Count	Ratio	Head Count	Ratio	Head Count	Ratio
Age <30	Women	5	1.10%	9	0.50%	32	6%	27	5%
	Men	448	99%	1,725	99%	518	94%	374	64%
Age 30-50	Women	8	4.30%	7	1%	8	4%	12	2%
	Men	176	96%	604	99%	219	97%	159	27%
Age >50	Women	1	12.50%	0	0%	1	7%	0	0
	Men	7	88%	17	100%	13	93%	14	2%
Total	Women	14	2%	16	1%	41	5%	39	7%
	Men	631	98%	2,346	99%	750	95%	547	93%

GRI 401-1

Employees left the job by age and gender

		Employees left the job with respect to age and gender							
		2019		2020		2021		2022	
		Head Count	Ratio	Head Count	Ratio	Head Count	Ratio	Head Count	Ratio
Age <30	Women	4	7%	2	1%	15	5%	5	3%
	Men	53	93%	176	99%	276	95%	96	58%
Age 30-50	Women	1	1%	4	4%	3	2%	3	2%
	Men	94	99%	98	96%	153	98%	60	36%
Age >50	Women	3	10%	0	0%	1	3%	0	0
	Men	27	90%	37	100%	30	97%	2	1%
Total	Women	8	4%	6	2%	19	4%	8	5%
	Men	174	96%	311	98%	459	96%	158	95%

GRI 401-1

		Employees left work with respect to age and gender							
		2019		2020		2021		2022	
		Head Count	Ratio	Head Count	Ratio	Head Count	Ratio	Head Count	Ratio
Employees who left work intentionally	Women	3	5%	2	0.92%	7	2.74%	8	4.81%
	Men	53	95%	215	99%	255	97.26%	158	95.19%

GRI 401-1

SOCIAL PERFORMANCE INDICATORS

Employee Training(hours)

	Percentages of total employees who recieved a regular performance development review[%]			
	2019	2020	2021	2022
Women	0	0	7.55%	17%
Men	0	0	92.45%	83%

GRI 404-3

Employee Number with Seniority Level

		Employee number with seniority level			
		2019	2020	2021	2022
0-5 years	Women	39	48	73	100
	Men	1,248	3,271	3,517	3,781
5-10 years	Women	12	11	17	18
	Men	422	246	352	369
10+years	Women	13	15	19	20
	Men	409	431	499	453

GRI 401-1

	Percentages of total employees who recieved a regular performance development review[%]			
	2019	2020	2021	2022
Technical	0	0	43.40%	41%
Executive	0	0	28.30%	33%
Production	0	0	28.30%	26%

GRI 404-3

Parental Leave

		2019	2020	2021	2022
Employee number who used parental leave	Women	3	1	2	4
	Men	77	161	258	333
Employees returned to job after parental leave	Women	3	1	2	4
	Men	77	161	258	333

GRI 401-3

SOCIAL PERFORMANCE INDICATORS

Employee trainings (hours)

	Average hours of training that the employees have undertaken			
	2019	2020	2021	2022
Average (personnel/hour)	22.19	16.68	19.82	26.19
Total(hour)	43.89	67.10	88.74	124.21

GRI 404-1

	2019	2020	2021	2022
Total training hours (without OHS training) (hour)	0	0	20,251	72,103
Average hour of training per employee(hour)	0	0	19.82	26.22
OHS training (hour)	0	0	3,817	50,095

GRI 404-1, 403-5

	Trainings given to women employees			
	2019	2020	2021	2022
Average (personnel/hour)	21.63	17.45	19.42	37.88
Total(hour)	1,384.32	1,291.3	2,116.78	5,227.67

GRI 404-1

	Trainings given to man employees			
	2019	2020	2021	2022
Average (personnel/hour)	22.75	15.91	20.22	25.84
Total(hour)	47,297.25	62,812.68	88,320.96	118,993.40

GRI 404-1

	Training hours per employee group			
	2019	2020	2021	2022
Technical	20.87	16.54	16.85	26
Executive	22.37	16.35	17.45	30.9
Production	23.33	17.15	17.21	26

GRI 404-1

SOCIAL PERFORMANCE INDICATORS

Occupational Health and Safety Performance

The number and ratio of fatalities as a result of work related injury

	2019		2020		2021		2022	
	Number	Ratio [200,000 hours]	Number	Ratio [200,000 hours]	Number	Ratio [200,000 hours]	Number	Ratio [200,000 hours]
Personnel	0	0%	1	0.035%	0	0%	0	0.00%
Sub Contractor	0	0%	0	0	0	0%	2	5.12%

GRI 403-10

The number and rate of work related injuries

	2019		2020		2021		2022	
	Number	Ratio [200,000 hours]	Number	Ratio [200,000 hours]	Number	Ratio [200,000 hours]	Number	Ratio [200,000 hours]
Personnel	0	0	0	0	2	0.049%	0	0.00%
Sub Contractor	0	0	0	0	1	0.102%	3	7.67%

403-9

Rate of recordable work related injuries(%) TRC

	2019		2020		2021		2022	
	Number	Ratio [200,000 hours]	Number	Ratio [200,000 hours]	Number	Ratio [200,000 hours]	Number	Ratio [200,000 hours]
Personnel	13	0.78%	91	3.21%	95	2.27%	74	1.69%
Sub Contractor	102	5.33%	158	7.85%	52	5.10%	122	3.02%

403-9

Work Related Injuries

Hand, finger and arm injuries

Foot and leg injuries

Head, face, eye and waist injuries

403-9

The number of fatalities of work related injuries

	2019	2020	2021	2022
Personnel	0	0	0	0

403-10

Recordable work related injuries

	2019	2020	2021	2022
Personnel	0	0	0	0
Subcontractor	0	0	0	0

GRI 403-9

The number of hours annual worked

	2019	2020	2021	2022
Personnel	3,338,894	5,671,706	8,122,039	8,877,391.00
Subcontractor	3,826,953	4,026,545	1,960,446	7,819,972.50

GRI 403-8,403-9

SOCIAL PERFORMANCE INDICATORS

Occupational Health&Safety Performance (SASA Employee)

	2019	2020	2021	2022
Accident Number	13	91	95	74
Fatality Number	0	1	0	0
Absence (Lost days)	453	1,645	2,261	912
Lost days due to work related injuries (LTI)	5	44	59	51
Accident Frequency Ratio (LTIF)	1.50	7.75	7.26	5.74
Accident Seriousness Ratio	0.30	1.55	1.45	1.15
Work related injury ratio	0	0	0	0
Lost Days Ratio (LDR)	0.0015	0.0078	0.0073	0.0057
Absenteeism Rate (AR)	0.0008	0.0016	0.0002	0.0006

GRI 403-2

OHS Performance (Subcontractors)

	2019	2020	2021	2022
Accident Number	102	158	52	122
Fatality Number	0	0	0	2
Absence (Lost days)	1,053	1,523	242	471
Lost days due to work related injuries (LTI)	44	50	24	67
Accident Frequency Ratio (LTIF)	11.5	12.42	12.24	8.57
Accident Seriousness Ratio	2.3	2.48	2.45	1.71
Work related injury ratio	0	0	0	0
Lost Days Ratio (LDR)	0.01	0.01	0.01	0.01

GRI 403-2

SOCIAL PERFORMANCE INDICATORS

Human Resources Management

	2019	2020	2021	2022
Percentage of collective bargaining among total employees	25%	12%	12%	2%

GRI 2-30, GRI 407-1

	2019		2020		2021		2022	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Employee training on human rights policies and procedures	2	100%	2	100%	2	100%	2	100%

GRI 402-1

	2019		2020		2021		2022	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Contracts	Contracts for new investments signed in 2017 in accordance with international standards were consolidated between 2018 and 2020				1	100%	2	100%

GRI 402-1

	Average hours of training per year per employee			
	2019	2020	2021	2022
Technical	20.87	16.54	16.85	26
Executive	22.37	16.35	17.45	30.9
Production	23.33	17.15	17.21	26

GRI 404-1

Security personnel trained in human rights policies or procedures (%)			
2019	2020	2021	2022
100%	100%	100%	100%

GRI 410-1

Employee training on human rights policies and procedures			
2019	2020	2021	2022
104	104	104	104

GRI 410-1

	Percentages of total employees who received a regular performance development review(%)	
	2021	2022
Women	7.55%	17%
Man	92.45%	83%

GRI 404-3

	Percentages of total employees who received a regular performance development review(%)	
	2021	2022
Technical	43.4%	41%
Executive	28.3%	33%
Production	28.3%	26%

GRI 404-3

ECONOMICAL PERFORMANCE INDICATORS

Economical Performance

			Produced and given economical Values(TL)			
			2019	2020	2021	2022
	Revenues	Fiber	1,392,102,000.00	2,348,140,000.00	4,804,534,000.00	9,830,890,207.00
		SPC	1,085,032,000.00	1,495,879,000.00	5,457,784,000.00	11,429,910,884.00
		Filament	213,333,000.00	1,132,654,000.00	4,366,720,000.00	9,002,438,540.00
		Other (Commercial commodities etc, sales)	73,278,000.00	64,275,000.00	15,915,000.00	508,261,998.00
	Employee wages and other benefits for employees	Employee wages	89,218,960.42	159,681,064.41	257,478,956.32	763,745,451.56
		Insurance	34,453,776.65	46,048,195.66	84,800,982.17	207,222,513.00
		Other benefits	0	0	0	0
	Other Costs	Operating Costs	2,441,625,816.00	3,827,303,000.00	10,675,976,881.00	24,195,229,000.00
	Payments to Fund Suppliers	Common Stocks	0	0	0	0
		Redeemed Shares	0	0	0	0
	Payments to government	Income tax	885,000.00	-	64,701,470.00	0*
	Community Investments		0	515,000.00	4,411,000.00	7,996,000.00

*This value for 2022 has not been announced yet.

GRI 201-1

	2019	2020	2021	2022
Economical Value Retained (TL)	198,446,447	1,007,915,740	3,626,696,181	29,800,533,665

GRI 201-1

	2019	2020	2021	2022
R&D Grants	0	2,113,340	1,843,126	3,328,023*

*3. quarter end value

GRI 201-1

ECONOMICAL PERFORMANCE INDICATORS

Market Presence

	Ratios of standard entry level wage by gender compared to local minimum wage															
	2019				2020				2021				2022			
	Women		Man		Women		Man		Women		Man		Women		Man	
	Entry Level Wage	Ratio	Entry Level Wage	Ratio	Entry Level Wage	Ratio	Entry Level Wage	Ratio	Entry Level Wage	Ratio	Entry Level Wage	Ratio	Entry Level Wage	Ratio	Entry Level Wage	Ratio
Executive	6,500	100%	7,000	100%	7,400	100%	7,400	100%	8,000	100%	8,000	100%	12,850	2.24%	12,850	2.24%
Production	7,000	100%	7,000	100%	7,400	100%	7,400	100%	8,800	100%	8,800	100%	16,650	2.9%	16,650	2.9%
Technical	7,000	100%	7,000	100%	7,400	100%	7,400	100%	8,800	100%	8,800	100%	16,650	2.9%	16,650	2.9%

GRI 202-1

	Proportion of senior management hired from the local community															
	2019				2020				2021				2022			
	Local		Foreign		Local		Foreign		Local		Foreign		Local		Foreign	
	Headcount	Ratio	Headcount	Ratio	Headcount	Ratio	Headcount	Ratio	Headcount	Ratio	Headcount	Ratio	Headcount	Ratio	Headcount	Ratio
	36	97.3%	1	2.7%	37	97.8%	1	2.6%	38	95%	2	5%	47	96%	2	4%

GRI 202-2

ECONOMICAL PERFORMANCE INDICATORS

Socio-economic Compliance

	Ratio of basic salary and remuneration of women to men			
	2019	2020	2021	2022
Executive	92%	100%	100%	100%
Production	100%	100%	100%	100%
Technical	100%	100%	100%	100%

GRI 405-2

Minimum notice periods regarding operational changes	
Service Period	Notice Period
<6 months	2 weeks
6-18 months	4 weeks
18-36 months	6 weeks

GRI 402-1



7

GRI CONTENT
INDEX

GRI CONTENT INDEX



CONTENT INDEX ESSENTIALS SERVICE

2023

GRI 1

SASA has reported in accordance with the GRI Standards for the period January-December 2022.

For the Content Index -Essentials Service, the GRI Services Team has examined that the GRI content index is clearly included in the report and that references to GRI 2-1, 2-5 and GRI 3 -1, 3-2 notifications are included in the report content. Content Index -Essentials Service was performed on the Turkish version of the report.

GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
GRI 1: FOUNDATION 2021		
GRI 2: GENERAL DISCLOSURES 2021		
GRI 2: General Disclosures 2021	2-1 Organizational details	• About the Report p.3
	2-2 Entities included in the organization's sustainability reporting	• About the Report p.3
	2-3 Reporting period, frequency and contact point	• About the Report p.3
	2-4 Restatements of information	• Material Topics p.3635
	2-5 External assurance	• Governance Structure p.27 • Business Continuity p.50 • Sustainable Supply Chain p.97,99
	2-6 Activities, value chain and other business relationships	• 2022 Overview p.14,17,20 • Product Groups p.21,22 • Sustainable Supply Chain p.97,99
	2-7 Employees	• Human Resources Management p.111 • Performance Indicators p.126
	2-8 Workers who are not employees	• Human Resources Management p.111 • Performance Indicators p.126

GRI CONTENT INDEX

GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
GRI 2: General Disclosures 2021	2-9 Governance structure and composition	• Governance Structure p.27 • Board of Directors Structure p.28 • Early Detection of Risk Committee p.31 • Climate Change Working Group p.31 • Corporate Governance Committee p.32 • Sustainability Committee p.32 • Sustainability Governance p.33
	2-10 Nomination and selection of the highest governance body	• Corporate Governance Approach p.2626 • SASA Corporate Governance Compliance Directive: https://www.sasa.com.tr/Upload/Dosyalar/Corporate-Governance-Principles-Compliance-Directive.pdf
	2-11 Chair of the highest governance body	• Governance Structure p.27
	2-12 Role of the highest governance body in overseeing the management of impacts	• 2-12 Role of the highest governance body in overseeing the management of impacts
	2-13 Delegation of responsibility for managing impacts	• Corporate Governance Approach p.26 • Governance Structure p.27
	2-14 Role of the highest governance body in sustainability reporting	• Sustainability Committee p.32
	2-15 Conflicts of interest	• Business Ethics p.54 • SASA Business Ethic Rules Policy: https://www.sasa.com.tr/Upload/Dosyalar/Business-Ethic-Rules-Policy.pdf
	2-16 Communication of critical concerns	• Business Ethics p.54
	2-17 Collective knowledge of the highest governance body	• Board of Directors Structure p.28

GRI CONTENT INDEX

GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
GRI 2: General Disclosures 2021	2-18 Evaluation of the performance of the highest governance body	- Board of Directors Structure p.28 - SASA Corporate Governance Compliance Directive: https://www.sasa.com.tr/Upload/Dosyalar/Corporate-Governance-Principles-Compliance-Directive.pdf
	2-19 Remuneration policies	- Human Resources Management p.114 - SASA Remuneration Policy for Board Members and Senior Managers: https://sasa.com.tr/Upload/Dosyalar/Remuneration-Policy.pdf
	2-20 Process to determine remuneration	- Human Resources Management p.114 - SASA Remuneration Policy for Board Members and Senior Managers: https://sasa.com.tr/Upload/Dosyalar/Remuneration-Policy.pdf
	2-21 Annual total compensation ratio	Privacy Restrictions: Not public information.
	2-22 Statement on sustainable development strategy	- Sustainability Governance p.33 - Sustainability Strategy p.37
	2-23 Policy commitments	- Business Ethics p.54,55 - SASA Business Ethic Rules Policy: https://www.sasa.com.tr/Upload/Dosyalar/Business-Ethic-Rules-Policy.pdf
	2-24 Embedding policy commitments	Business Ethics p.54,55
	2-25 Processes to remediate negative impacts	Business Ethics p.54,55
	2-26 Mechanisms for seeking advice and raising concerns	Business Ethics p.54,55

GRI CONTENT INDEX

GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
GRI 2: General Disclosures 2021	2-27 Compliance with laws and regulations	• Business Ethics p.54,55
	2-28 Membership associations	• Memberships and Partnerships p.23
	2-29 Approach to stakeholder engagement	• Stakeholders Engagement p.56,57,58
	2-30 Collective bargaining agreements	• Human Resources Management p.111 • Performance Indicators p.132
GRI 3: MATERIAL TOPICS 2021		
MATERIAL TOPICS		
GRI 3: Material Topics 2021	3-1 Process to determine material topics	• Materiality Analysis p.34
	3-2 List of material topics	• Material Topics p.36
MANAGEMENT STRUCTURE (INDEPENDENCE AND DIVERSITY)		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Governance Structure p.27 • Board of Directors p.28 • Board of Directors Committees and Working Groups p.31,32

GRI CONTENT INDEX

GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
RISK AND CRISIS MANAGEMENT		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Risk Management p.51,52 • Tax Approach p.52 • Stakeholders Engagement p.56
GRI 205: Anticorruption 2016	205-1 Operations assessed for risks related to corruption	• Business Ethics p.54,55 • SASA Business Ethic Rules Policy: https://www.sasa.com.tr/Upload/Dosyalar/Business-Ethic-Rules-Policy.pdf
	205-2 Communication and training about anti-corruption policies and procedures	• Business Ethics p. 54,55
GRI 207: Tax 2019	207-1 Approach to tax	• Tax Approach p.52
	207-2 Tax governance, control, and risk management	• Tax Approach p.52
	207-3 Stakeholder engagement and management of concerns related to tax	• Tax Approach p.52
SUSTAINABLE PRODUCT DESIGN AND LIFE CYCLE MANAGEMENT		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Sustainable Production Management p.8 • Circular Economy p.81

GRI CONTENT INDEX

GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
GRI 301: Materials 2016	301-1 Materials used by weight or volume	• Performance Indicators p.124
	301-2 Recycled input materials used	• Circular Economy p.81 • Waste Management p.72 • Performance Indicators p.124
	301-3 Reclaimed products and their packaging materials	• Waste Management p.72 • Performance Indicators p.124
CHEMICAL MANAGEMENT		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Green Chemistry p.82,83,84 • SASA Hazardous Substances and Chemicals Policy: https://www.sasa.com.tr/Upload/Dosyalar/Hazardous-Substances-and-Chemicals-Policy.pdf
DIGITALISATION AND INDUSTRY 4.0		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Eco-Innovation and R&D p.85,86,87 • Industry 4.0 and Digitalization p.91,92

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GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
CLIMATE CHANGE ADAPTATION		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Environmental Management Approach p.60 • Climate Management p.61,62,63,64,65 • Environmentally Friendly Projects p.76,77,78
ENERGY MANAGEMENT		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Energy Management p.67,68
GRI 302: Energy 2016	302-1 Energy consumption within the organization	• Performance Indicators p.122
	302-3 Energy intensity	• PTA Production Plant Energy Management p.67 • Performance Indicators p.123
	302-4 Reduction of energy consumption	• Energy Management p.68 • Environmentally Friendly Projects p.76,77,78 • Performance Indicators p.123
	302-5 Reductions in energy requirements of products and services	• Energy Management p.68 • Performance Indicators p.123

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GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
WATER AND WASTEWATER MANAGEMENT		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Water and Wastewater Management p.69,70,71
GRI 303: Water and Effluents 2018	303-1 Interactions with water as a shared resource	• Water and Wastewater Management p.69
	303-2 Management of water discharge related impacts	• Wastewater Management p.70
	303-3 Water withdrawal	• Performance Indicators p.123
	303-4 Water discharge	• Performance Indicators p.123
	303-5 Water consumption	• Performance Indicators p.123
BIODIVERSITY		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Biodiversity p.73,74
GRI 304: Biodiversity 2016	304-1 Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	• Biodiversity p.73
	304-2 Significant impacts of activities, products and services on biodiversity	• Biodiversity p.74,75

GRI CONTENT INDEX

GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
AIR QUALITY MANAGEMENT		
GRI 3: Material Topics 2021	3-3 Management of material topics	- Materiality Matrix p.35 - Management of Non-GHG Emissions p.66
GHG EMISSIONS REDUCTION		
GRI 3: Material Topics 2021	3-3 Management of material topics	- Materiality Matrix p.35 - Climate Management p.61,62
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions	Performance Indicators p.122
	305-2 Energy indirect (Scope 2) GHG emissions	Performance Indicators p.122
	305-3 Other indirect (Scope 3) GHG emissions	Performance Indicators p.122
	305-4 GHG emissions intensity	- Climate Management p.61 - Performance Indicators p.122
	305-5 Reduction of GHG emissions	Performance Indicators p.122
	305-6 Emissions of ozone-depleting substances (ODS)	Management of Non-GHG Emissions p.66
	305-7 Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	Performance Indicators p.122

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GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
WASTE AND HAZARDOUS WASTE MANAGEMENT		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Waste Management p.72
GRI 306: Waste 2020	306-1 Waste generation and significant waste-related impacts	• Waste Management p.72
	306-2 Management of significant waste-related impacts	• Waste Management p.72
	306-3 Waste generated	• Performance Indicators p.125
	306-4 Waste diverted from disposal	• Performance Indicators p.125
	306-5 Waste directed to disposal	• Performance Indicators p.125
SUSTAINABLE SUPPLY CHAIN MANAGEMENT		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Sustainable Supply Chain p.95,96 • Sustainable Production Management p.80
GRI 308: Supplier Environmental Assessment 2016	308-1 New suppliers that were screened using environmental criteria	• Sustainable Supply Chain p.96,97 • SASA Supplier Code of Conduct Policy: https://www.sasa.com.tr/Upload/Dosyalar/Supplier-Code-of-Conduct.pdf
	308-2 Negative environmental impacts in the supply chain and actions taken	• Sustainable Supply Chain p.96,97

GRI CONTENT INDEX

GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
GRI 414: Supplier Social Assessment 2016	414-1 New suppliers that were screened using social criteria	- Sustainable Supply Chain p.96,97 - SASA Supplier Code of Conduct Policy: https://www.sasa.com.tr/Upload/Dosyalar/Supplier-Code-of-Conduct.pdf
	414-2 Negative social impacts in the supply chain and actions taken	Sustainable Supply Chain p.96,97
GRI 416: Müşteri Sağlığı ve Güvenliği 2016	416-1 Assessment of the health and safety impacts of product and service categories	Customer Health and Safety p.100
EMPLOYEE RIGHTS		
GRI 3: Material Topics 2021	3-3 Management of material topics	- Materiality Matrix p.35 - Employee Rights p.116
GRI 202: Market Presence 2016	202-1 Ratios of standard entry level wage by gender compared to local minimum wage	Performance Indicators p.121
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	Performance Indicators p.121
	401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	Employee Rights p.114
	401-3 Parental leave	Performance Indicators p.121
GRI 402: Labor/Management Relations 2016	402-1 Minimum notice periods regarding operational changes	Performance Indicators p.121

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GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	• Performance Indicators p.121
	404-2 Programs for upgrading employee skills and transition assistance programs	• Employee Rights p.115
	404-3 Percentage of employees receiving regular performance and career development reviews	• Employee Rights p.115 • Performance Indicators p.121
OCCUPATIONAL HEALTH AND SAFETY		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Occupational Health and Safety p. 105,106,107
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system	• Occupational Health and Safety p. 105,106 • SASA Occupational Health and Safety Policy: https://www.sasa.com.tr/Upload/Dosyalar/Occupational-Health-and-Safety-Policy.pdf
	403-2 Hazard identification, risk assessment, and incident investigation	• Performance Indicators p.121
	403-3 Occupational health services	• Occupational Health and Safety p.108,109
	403-4 Worker participation, consultation, and communication on occupational health and safety	• OHS Trainings p.107
	403-5 Worker training on occupational health and safety	• OHS Trainings p.107

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GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
GRI 403: Occupational Health and Safety 2018	403-6 Promotion of worker health	• Occupational Health and Safety p.105,106
	403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	• OHS Trainings p.107 • Efforts to Improve Occupational Safety p.106
	403-8 Workers covered by an occupational health and safety management system	• Performance Indicators p.121
	403-9 Work-related injuries	• Performance Indicators p.121
	403-10 Work-related ill health	• Performance Indicators p.121
EMPLOYEE ENGAGEMENT, DIVERSITY, INCLUSION		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Employee Rights p.116 • Human Resources Management p.111,112
GRI 405: Diversity and Equal Opportunity 2016	405-1 Diversity of governance bodies and employees	• Board of Directors p.28 • Performance Indicators p.121
	405-2 Ratio of basic salary and remuneration of women to men	• Performance Indicators p.121
GRI 406: Ayrımcılığın Önlenmesi 2016	406-1 Incidents of discrimination and corrective actions taken	• Employee Rights p.116 • SASA Business Ethic Rules Policy: https://www.sasa.com.tr/Upload/Dosyalar/Business-Ethic-Rules-Policy.pdf
HUMAN RIGHTS AND COMMUNITY RELATIONS		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Human Rights Approach p.110 • SASA Human Rights Policy: Materiality Analysis p.34 • Human Rights Approach p.110 • Community Relations p.117 • Social Relations p.117

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GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
GRI 407: Freedom of Association and Collective Bargaining 2016	407-1 Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	- Human Rights Approach p.110 - Sustainable Supply Chain p.97 - SASA Human Rights Policy: https://www.sasa.com.tr/Upload/Dosyalar/Human-Rights-Policy.pdf
GRI 408: Child Labor 2016	408-1 Operations and suppliers at significant risk for incidents of child labor	- Sustainable Supply Chain p.97 - Human Rights Approach p.110
GRI 409 Forced or Compulsory Labor 2016	409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor	- Sustainable Supply Chain p.97 - Human Rights Approach p.110 - SASA Human Rights Policy: https://www.sasa.com.tr/Upload/Dosyalar/Human-Rights-Policy.pdf
GRI 410: Security Practices 2016	410-1 Security personnel trained in human rights policies or procedures	Performance Indicators p.121
GRI 411: Rights of Indigenous Peoples 2016	411-1 Incidents of violations involving rights of indigenous peoples	Social Relations p.117
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	- Community Relations p.117 - Social Investments s.118,119,120 - SASA Social Relations Policy: https://www.sasa.com.tr/Upload/Dosyalar/Community-Relations-Policy.pdf

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GRI Standard	Disclosure	Page Number, Reference and/or Direct Answers
PRODUCT QUALITY AND SAFETY		
GRI 3: Material Topics 2021	3-3 Management of material topics	• Materiality Matrix p.35 • Labeling and Product Quality Standards p.101
GRI 417 Marketing and Labeling 2016	417-1 Requirements for product and service information and labeling	• Labeling and Product Quality Standards p.101

A misty forest scene with tall trees and a path, overlaid with a large white number 8 on a yellow background.

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APPENDIX

UNITED NATIONS GLOBAL COMPACT (UNGC) CONTENT INDEX

Topics	Global Principles	GRI Standards	References and descriptions
Human Rights	Principle 1: Businesses should support and respect the protection of internationally proclaimed human rights.	GRI 1-30, GRI 2-23, GRI 410, GRI 411	Human Rights Policy https://www.sasa.com.tr/Upl oad/Dosyalar/Human-Rights-Policy.pdf
	Principle 2: Make sure that they are not complicit in human rights abuses.		Human Resources Management https://www.sasa.com.tr/Upl oad/Dosyalar/Business-Ethic-Rules-Policy.pdf
Employee Standards	Principle 3: Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining	GRI 2-26, GRI 2-30, GRI 406, GRI 407, GRI 408, GRI 409	Human Rights Approach Our Sustainable Supply Chain https://www.sasa.com.tr/Upl oad/Dosyalar/Human-Rights-Policy.pdf
	Principle 4: Businesses should uphold the elimination of all forms of forced and compulsory labour		Our Sustainable Supply Chain Human Rights Approach https://www.sasa.com.tr/Upl oad/Dosyalar/Human-Rights-Policy.pdf
	Principle 5: Businesses should uphold the effective abolition of child labour		Our Sustainable Supply Chain Human Rights Approach https://www.sasa.com.tr/Upl oad/Dosyalar/Human-Rights-Policy.pdf
	Principle 6: Businesses should uphold the elimination of discrimination in respect of employment and occupation.		Human Resources Management https://www.sasa.com.tr/Upl oad/Dosyalar/Business-Ethic-Rules-Policy.pdf https://www.sasa.com.tr/Upl oad/Dosyalar/Human-Rights-Policy.pdf

Topics	Global Principles	GRI Standards	References and descriptions
Environment	Principle 7: Businesses should support a precautionary approach to environmental challenges	GRI 301, GRI 302, GRI 303, GRI 305, GRI 306, GRI 308	Sustainable Product Management Industry 4.0 and Digitization Environmental Sustainability Our Sustainability Goals Our Environmentally Friendly Projects
	Principle 8: Businesses should undertake initiatives to promote greater environmental responsibility		Sustainable Product Management Our Sustainable Supply Chain http://www.sasa.com.tr/Upl oad/Dosyalar/Supplier-Code-of-Conduct.pdf
	Principle 9: Businesses should encourage the development and diffusion of environmentally friendly technologies		Sustainable Product Management Industry 4.0 and Digitalization Green Chemistry Our Sustainability Goals Our Environmental Friendly Projects http://www.sasa.com.tr/Upl oad/Dosyalar/Hazardous-Substances-and-Chemicals-Policy.pdf
Anticorruption	Principle 10: Businesses should work against corruption in all its forms, including extortion and bribery	GRI 2-15, GRI 2-27, GRI 205	Business Ethics https://www.sasa.com.tr/Upl oad/Dosyalar/Business-Ethic-Rules-Policy.pdf

SUSTAINABLE DEVELOPMENT GOALS (SDG)

CONTENT INDEX

Sustainable Development Goals		Reference Pages and Topics
	No Poverty	Social Sustainability Approach p.104
	Zero Hunger	Social Sustainability Approach p.104
	Good Health and Well-being	Social Sustainability Goals p.45, Customer Health and Safety p.100
	Quality Education	Social Sustainability Goals p.46, Occupational Health and Safety p.107, Human Resources Management p.115
	Gender Equality	Social Sustainability Approach p.44, Human Rights Approach p.110
	Clean Water and Sanitation	Environmental Sustainability Goals p.43, Water and Wastewater Management p.69, 70
	Affordable and Clean Energy	Environmental Sustainability Goals p.39, 40, Energy Management p.67,
	Decent Work and Economic Growth	Social Sustainability Goals p.46, Business Ethics p.54,55, Occupational Health and Safety p.103, Human Resources Management p.111, 112, Labour Rights p.116

Sustainable Development Goals		Reference Pages and Topics
	Industry, Innovation and Infrastructure	Environmental Sustainability Goals p.42, Sustainable Product Management, Circular Economy p.80, 81, Eco-innovation and R&D p.85-94, Eco-innovation and R&D p.91-92,
	Reduced Inequalities	Social Sustainability Goals p.44 Social Sustainability Goals p.46, Employee Rights p.116
	Sustainable Cities and Communities	Community Relations p.117 Social Investments p.118-120
	Responsible Consumption and Production	Environmental Sustainability Goals p.41,42, Waste Management p.72, Environmentally Friendly Project p.76-78, Sustainable Product Management, Circular Economy p.80, 81, Sustainable Supply Chain p.95-99
	Climate Action	Sustainability Strategies- Environmental Sustainability Goals p.37-40, Environmental Product Management Approach s.60 Climate Management p.61-66, Environmentally Friendly Projects p.76-78
	Life Below Water	Biodiversity p.73-75
	Life on Land	Biodiversity p.73-75
	Peace, Justice and Strong Institutions	Values p.25 Corporate Governance Approach p.26, Environmental Sustainability Goals (Environmental Responsibility) p.43
	Partnerships for the Goals	Memberships and Partners p.23, Corporate Sustainability Goals p.47-49, Stakeholder Engagement p.56-58, Eco-innovation and R&D p.93,94

2022 WATER FOOTPRINT VERIFICATION STATEMENT



SASA POLYESTER SAN. A.Ş.
Sarıhamzalı Mah. Turhan Cemal Beriker Bulvarı
No:559 PK:01355 Seyhan Adana

To whom it may concern,

This letter is presented to SASA POLYESTER SAN. A.Ş. to present opinion of the Bureau Veritas Certification Turkey on the Water Footprint Inventory Verification for the period 1 January 2022 to 31 December 2022.

Bureau Veritas Turkey not accepts or assumes any responsibility or liability on our part to any other party who may have access to this letter or assurance report.

SASA POLYESTER SAN. A.Ş., commissioned Bureau Veritas to perform a verification of its 2022 WATER FOOTPRINT Inventory. The verification was performed on March 2023.

The Water Footprint assertions verified were the following:

That the 2022 WATER FOOTPRINT Inventory for Customer has been developed in accordance with common industry practice, including ISO 14046:2016 Standard (the water footprint sources included has been given in verification report).

In 2022 SASA POLYESTER SAN. A.Ş. had;

Total Blue Water Footprint **4,967,016 m³**
Consumed blue water per product **2.66 m³/tone product**
Total Grey Water Footprint **1,341,652.75 m³**
Grey water generated per product **0.849 m³/tone product**

The verification task was to form an opinion at a reasonable level of assurance about the above Water Footprint assertions, regarding:

- Conformance with the general requirements of ISO 14046:2016.
- Reasonableness of the calculated water footprint inventory for 01.01.2022-31.12.2022.

The following verification activities were conducted:

- Review of documentation, controls and methodologies, including other verification reports,
- Assessment of risks and verification planning,
- Assessment of documentation, controls and methodologies, including the facility quality management systems,
- Documentation of verification findings and outstanding issues in verification report,
- Assessment and documentation of resolutions to outstanding issues in verification report,
- Issuance of verification statement and completion of verification.



Water Footprint Assertion: The WATER FOOTPRINT inventory conforms to the general requirements of ISO 14046:2016 Standard (The sources have been given in verification report).

In 2022 SASA POLYESTER SAN. A.Ş. had a blue water footprint of **4,967,016 m³**. The grey water footprint is **1,341,652.75 m³** for waste water.

View Declaration

The "WATER FOOTPRINT INVENTORY" report as a result of verification audit held on the basis of international standards has been verified with reasonable assurance.

Verifier Opinion and Qualifications

Based on the process and procedures conducted, the WATER FOOTPRINT assertion is prepared in accordance with the requirements of ISO 14046:2016.

Based on the process and procedures conducted, the WATER FOOTPRINT assertion is materially correct and is a fair representation of the WATER FOOTPRINT data and information.

Tarih: 23/03/2023

Seda Atabek

Baş Doğrulayıcı

İbrahim TAGAY

Certification Manager

İBRADİT:
Erişim Yolu: Oğuzköy
Adres: Erişim Yolu, Çarşı Sok. No: 23 Kat: 4
34061 İskitçe - Beşiktaş
Tic. Sic. No: 27.111.40.30
Tic. Sic. No: 27.111.40.30
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Tic. Sic. No: 27.111.40.30
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ANTALYA:
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Tic. Sic. No: 27.111.40.30
Tic. Sic. No: 27.111.40.30
Tic. Sic. No: 27.111.40.30

2020 ZERO WASTE CERTIFICATE



T.C.
ADANA VALİLİĞİ
Çevre ve Şehircilik İl Müdürlüğü



Belge No: TS/1/B2/15/2

Tarih: 18/03/2020

SIFIR ATIK BELGESİ (Temel Seviye)

Adı : SASA POLYESTER SAN. A.Ş.
Adresi : ADANA, SARIHAMZALI Mahallesi, TURHAN CEMAL BERİKER BULVAR, No: 559-,
SEYHAN, Türkiye
Vergi No : 7520002730

12/07/2019 tarihli ve 30829 sayılı Resmi Gazete'de yayımlanarak yürürlüğe giren Sıfır Atık Yönetmeliği'nce Sıfır Atık Yönetim Sistemi'ni kurarak **Sıfır Atık Belgesi**'ni almaya hak kazanmıştır.

Belge Son Geçerlilik Tarihi: 18/03/2025

e-imzalıdır

Halit ERGİN

Çevre ve Şehircilik İl Müdürü

Not: 5070 sayılı Elektronik İmza Kanunu gereği bu belge elektronik imza ile imzalanmıştır.

Evrak Doğrulama Kodu : PARYRMXV Evrak Takip Adresi: <https://www.turkiye.gov.tr/cevre-ve-sehircilik-bakanligi>

ABBREVIATIONS

Kisaltmalar
ADASO: Adana Chamber of Industry
ADME : Emergency Response Team
ADSiAD : Adana Industry and Business Association
AKIB : Mediterranean Exporters' Association
AKMIB : Mediterranean Chemicals and Products Exporters' Association
AOSB : Adana Sabanci Organised Industrial Zone
ATO : Adana Chamber of Commerce
BIST : Borsa Istanbul
CBAM : Carbon Border Adjustment Mechanism
CDP : Carbon Disclosure Project
CITES : Convention on the international trade in endangered species of wild flora and fauna
CP : Continous Processes
DCA : Dichlorine Acetic Acid
DCS : Distributed Control System
DCA : Dichlorine Acetic Acid
DEG : Diethylene Glycol
DMT : Dimethyl tetra-phatalate
DSİ : General Directorate of State Hydraulic Works
DTO : Chamber of Shipping
DTY : Drawn Textured Yarn

Kisaltmalar
EBTIDA : Earnings Before Interest, Depreciation and Taxes
EIA : Environmental Impact Assesment
EGD : European Green Deal
EGSB : Extended Granular Sludge Bed
ETS: Emisyon Ticaret Sistemi
ESG : Environment, Social and Governance
ESGP : Environmental, Social, Government Plan
ESIA : Environmental and Social Impact Assesment
ETL : Energy Transmission Line
ETS : Emission Trading System
EU : European Union
FDY : Full-Drawn Yarn
GMP : Good Manufacturing Practices
GRI : Global Reporting Initiative
IFC : International Finance Corporation
ILO : International Labor Organization
ISO: International Organization for Standardization
IUCN : International Union for Conservation of Nature
İSO: Istanbul Chamber of Industry

Kisaltmalar
KAP : Public Disclosure Platform
KPI : Key Performance Indicators
KVKK : Law of Protection of Personal Data
LCA : Life Cycle Assesment
MOTAT : Mobile Waste Transport System
MEG : Monoethylene glycol
METU : Middle East Technical University
MSDS : Material Data Safety Sheet
NGO : Non- Governmental Organisations
NOx: Nitrous oxides
OECD : Organisation for Economic Co-operation and Development
OHS : Occupational Health & Safety
PET : Polyethylene Terephthalate
POY : Partially Oriented Yarn
PSM : Process Security Management
PTA : Purified Terephthalic Acid
PTB : Polybutene Terephthalate
PTHF : Polytetrahydrofuran
P&D : Product&Development
RCP : Representative Concentration Pathway
R&D : Research & Development
SAİS : Continued Wastewater Monitoring System
SDG : Sustainable Development Goals
SKKY : Water Pollution Control Regulation

INDEPENDENT AUDIT REPORT



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Independent Limited Assurance Report

To the Board of Directors of Sasa Polyester A.Ş.

We were engaged by Sasa Polyester A.Ş. (hereinafter "Company" or "Sasa Polyester") to provide limited assurance on whether the "Selected Information" as defined in the Appendices of this Sustainability Report (hereinafter "the Report") has been prepared by Sasa Polyester for the year ended 31 December 2022, in all material respects, in accordance with the Global Reporting Initiative Standards ("GRI").

The scope of our assurance is limited to the Selected Information listed for Sasa Polyester below:

- Payments to the Government – income tax (TL) – GRI 201/1
- Other payments- Investments for society (TL)- GRI 201/1
- Financial supports from the Government – R&D Grants -Arge hibeleri (TL) – GRI 201/1
- Ratio of standard entry level wages to minimum wage (%) - GRI 203/1
- Employment rate of senior management from the local management (%) - GRI 202/2
- Recyclable raw material usage amounts (tonnes) – GRI 301/1
- Recycled raw material usage rate (tonnes)- GRI 301/2
- Amount of use of non-recyclable raw materials (tonnes) – GRI 301/1
- Energy consumption in non- renewable resources (GJ) – GRI 302/1
- Energy density (GJ/tonnes) – GRI 302/3
- Reduction in energy consumption (GJ) – GRI 302/4
- Energy consumption in renewable resources (GJ)- GRI 302/1
- Water withdrawal by type of source (m3)- GRI 303/3
- The amount of water discharge according to the discharge points (m3)- GRI 303/4
- Water consumption (m3)- GRI 303/3



- GHG emissions reduction - offset projects (tCO2e)- GRI 305/5
- Total GHG concentrations (Tco2e/tonnes) - GRI 305/4
- The amount of recycled hazardous waste recycled (tonnes) – GRI 306/4
- The amount of non- hazardous waste recycled (tonnes) – GRI 306/4
- The amount of waste produced (tonnes) – GRI 306/3
- The amount of hazardous waste disposed of (tonnes) – GRI 306/5
- The amount of non-hazardous waste disposed of (tonnes) – GRI 306/5
- The number and rate of newly hired personnel by age and gender (%) – GRI 405/1
- The number and rate of employees leaving work by age and gender (%) – GRI 405/1
- The total number of employees who return to work after maternity leave and still use maternity leave – GRI 403/1
- The percentage of board members and senior management by gender (%)– GRI 405/1
- The percentage of board members and senior management by age (%)– GRI 405/1
- The percentage of staff by gender (%)– GRI 405/1
- The percentage of staff by age (%) - GRI 405/1
- The rate of unionization among personnel (%)– GRI 407/1
- Operations subject to human rights reviews or impact assessments– GRI 412-1
- Significant investment agreements and contracts containing human rights clauses (units)– GRI 413/3
- Proportion of employees who are subject to regular performance evaluation (%) – GRI 404/3
- Total training hours (hours)– GRI 404/1
- The hours of education given by gender (hours) – GRI 412/2
- The training hours by work categories (hours) – GRI 403/8
- The training hours devoted to employee working on human rights policies – GRI 404/3
- The percentage of security personnel trained in human rights policies (%) – GRI 404/3
- Number of personnel and subcontractors within the scope of occupational health and safety – GRI 403/8
- Annual working time of the personnel (hours) – GRI 403/9
- Number and rate of serious work-related injuries (%) - GRI 403/9
- Total number and proportion of work-related recordable cases (%) - GRI 403/9
- Number and proportion of deaths as a result of work-related injuries (%) - GRI 403/9
- Ratio of women's basic salaries and wages to men's salaries (%) - GRI 403/9
- Minimum notice period (weeks) regarding operational changes – GRI 402/1

Management's responsibilities

Management's responsibilities Management is responsible for the preparation and presentation of the Report for the Selected Information in accordance with the definition of GRI, and the information and assertions contained within it; for determining Sasa Polyester objectives in respect of sustainable development

INDEPENDENT AUDIT REPORT



performance and reporting, including the identification of stakeholders and material issues; and for establishing and maintaining appropriate performance management and internal control systems from which the reported performance information is derived.

Management is responsible for preventing and detecting fraud and for identifying and ensuring that Sasa Polyester complies with laws and regulations applicable to its activities.

Management is also responsible for ensuring that staff involved with the preparation and presentation of the description and the Selected Information are properly trained, information systems are properly updated and that any changes in reporting encompass all significant business units.

Our responsibilities

Our responsibility is to carry out a limited assurance engagement and to express a conclusion based on the work performed. We conducted our engagement in accordance with International Standard on Assurance Engagements (ISAE) 3000, Assurance Engagements other than Audits or Reviews of Historical Financial Information, issued by the International Auditing and Assurance Standards Board. That Standard requires that we plan and perform the engagement to obtain limited assurance about whether the Selected Information is free from material misstatement.

The firm International Standard on Quality Control 1 and accordingly maintain a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

We have complied with the independence and other ethical requirements of the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior.

Procedures performed

A limited assurance engagement on a Selected Information consists of making inquiries, primarily of persons responsible for the preparation of information presented in the Selected Information, and applying analytical and other evidence gathering procedures, as appropriate. These procedures included:

- Interviews with relevant staff at the corporate and business unit level responsible for providing the information in the Selected Information.
- Comparing the information presented in the Selected Information to corresponding information in the relevant underlying sources to determine whether all the relevant information contained in such underlying sources has been included in the Selected Information.
- Reading the information presented in the Selected Information to determine whether it is in line with our overall knowledge of, and experience with, the sustainability performance of Sasa Polyester.

The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement, and



consequently the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained has a reasonable assurance engagement been performed.

Inherent limitations

Due to the inherent limitations of any internal control structure it is possible that errors or irregularities in the information presented in the Selected Information may occur and not be detected. Our engagement is not designed to detect all weaknesses in the internal controls over the preparation and presentation of the Selected Information, as the engagement has not been performed continuously throughout the period and the procedures performed were undertaken on a test basis.

Conclusion

Our conclusion has been formed on the basis of, and is subject to, the matters outlined in this report.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our conclusions.

Based on the procedures performed and the evidence obtained, as described above, nothing has come to our attention that causes us to believe that the Selected Information as defined in the Appendices of the Report of Sasa Polyester for the year ended 31 December 2022 is not presented, in all material respects, in accordance with the GRI Sustainability Reporting Standards.

In accordance with the terms of our engagement, this independent limited assurance report on the Selected Information has been prepared for Sasa Polyester in connect with reporting to Sasa Polyester and for no other purpose or in any other context.

Restriction of use of our report

Our report should not be regarded as suitable to be used or relied on by any party wishing to acquire rights against us other than Sasa Polyester, for any purpose or in any other context. Any party other than Sasa Polyester who obtains access to our report or a copy thereof and chooses to rely on our report (or any part thereof) will do so at its own risk. To the fullest extent permitted by law, we accept or assume no responsibility and deny any liability to any party other than Sasa Polyester for our work, for this independent limited assurance report, or for the conclusions we have reached.

KPMG Bağımsız Denetim ve Serbest Muhasebeci Mali Müşavirlik Anonim Şirketi



Partner

İstanbul, 28 April 2023

LEGAL WARNING

SASA Polyester San. A.Ş. ("SASA") Sustainability Report ("Report") has been prepared in accordance with the GRI Standards and by utilizing the guidance of the United Nations Sustainable Development Goals (SDGs). All the information and opinions included in the report, which do not carry the qualification of being complete, were conveyed by SASA, which contributed to the report. All data and information within the scope of this Report have not been independently verified and have been prepared for informational purposes only and do not serve as a basis for any investment decision.

Accordingly, SASA or the members of the Board of Directors, consultants or employees are not responsible for any direct or indirect loss or damage suffered by a person as a result of any information or communication conveyed within the scope of this Report, or information based on or not included in this Report. It is believed that all information and related documents contained at the time of preparation of this report are correct, and the information is disclosed in good faith and is based on reliable sources. SASA does not accept any responsibility for any mistakes that may occur during the writing process.



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