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ABOUT THE REPORT





With our seventh sustainability report that reflects to evaluate our impacts resulting from our activities and to examine our monitoring, improvement and measurement steps in managing them.

The Scope and Topic Boundaries

The data in this report covers Kordsa's activities from January 1, 2020 to December 31, 2020. We also provide 2018 and 2019 data in order to monitor. the trends. In addition to determining process of the report content, we explain the boundaries of the material topics in the **Sustainability Impacts** Along Our Value Chain section of this

The list of topics that we include on our materiality matrix are all relevant for our global operations with no limitations. This year the scope of our report has not changed. Externally our suppliers and contractors also have impacts regarding these topics. We provide details on management of impacts under **Selecting Suppliers** topic of this report. Regarding our economic performance, we provide figures representing the company, not as country specific.

The Principles

This report is prepared in accordance with the **GRI Standards:** Core option. In the process of identifying our strategic sustainability topics, we took into consideration GRI's principles of materiality, stakeholder inclusiveness, sustainability context and completeness. Our report also covers the 10 principles of **UN Global Compact** that we signed in 2014. **UNGC Content Index** is located here.

With our targets on material topics, we directly address five of **UN Sustainable Development Goals.** Our report also covers the **International Finance Corporation** IFC's Performance Standards on Environmental and Social Sustainability that were established to pinpoint, assess, and manage social and environmental risks in project finance. Additionally, we analyzed the relevant **SASB's (Sustainability Accounting Standards Board)** topics and KPI's of the sectors Kordsa serve and explained how we support our customers' sustainability targets.

External Audit and Verification

Selected 2020 performance indicators are audited by PWC. Scope 1-2-3 calculations are verified by **QSI.**

Next Report

We aim to publish the eighth of our sustainability reports, which we plan to prepare annually, in the first half of 2022.



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KORDSA SUSTAINABILITY REPORT





TEXT

Throughout the report, you can reach the relevant topic link by clicking on the bold and underlined texts.



All items in the table of contents page are linked to relevant headings. You can simply click on the heading in the contents page to directly go to the relevant topic in the report.



You can move forward and backward through the pages by clicking on the arrows at the right end of each page.



You can reach any part of the report by using the navigation pane on top of each page.



Related video on pages with play button you can watch the content.

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MESSAGE FROM OUR CHAIRMAN



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Dear Stakeholders,

1020 has been a year that we completed the actions on Lour first five-year's sustainability roadmap we have been exercising since 2016 while readjusting to the changes the Covid-19 pandemic brought in.

Kordsa continued to create value for its stakeholders with its "We are inspired to reinforce life" vision by taking swift action in all matters with its power to adapt in this year where we once more witnessed the importance of joining the power of being global with the agility of being local, digital transformation and the sustainability issues in all areas.

We had shared the first performance report on our sustainability impact with our stakeholders back in 2015 following our signing of the UN Global Compact in 2014, which laid down 10 principles in environment, human rights, work force and combat with corruption topics. Kordsa was received into the BIST Sustainability Index which lists companies with the highest corporate sustainability performances in 2016 and inducted among the Sustainability Leaders in 2020.

Kordsa crowned its success in operational sustainability performance and reporting by both being selected as one of

Kordsa continued to create value for its stakeholders with its "We are inspired to reinforce life" vision by taking swift action in all matters with its power to adapt in this year where we once more witnessed the importance of joining the power of being global with the agility of being local, digital transformation and the sustainability issues in all areas.

the three Leaders of CDP Climate and Water Programs in Turkey and also winning the second-place award for its Sustainability Report in the 'Best Materiality Report of Asia' category in 2020.

With our Industry 4.0 applications guided by technology and digitalization, we are transforming our sustainability works which we have been executing with the principle of creating value for all of our stakeholders. While we are working to build the factory of the future using smart manufacturing systems as a technology and innovation leader company on a global scale, we are also taking care of our corporate responsibilities sensitively by using resources effectively.

We are developing innovative and environment-friendly technologies focusing on human and environment with the continuous studies of our R&D centers which serve as kitchens for our innovations in all of our fields of business. For a sustainable mobility, we are utilizing the nylon yarns we recycle in tire reinforcement technologies while we are producing reinforcement materials in composite technologies which reduce fuel consumption by making vehicles lighter. In construction reinforcement technologies we are developing innovative products in order to make concrete structures stronger and have a longer life.

Having showcased its experience and know-how on advance material technologies in the direction of creating a sustainable future goal, Kordsa put its signature under an important achievement in 2020. The battery covers produced in the UK with Kordsa-marked fiber fabric on have come out as a very important step in reducing the weight of electric vehicles which are seen as the future of mobility.

In the field of composite technologies, Kordsa reached out into space with its subsidiary Fabric Development and provided NASA with the fabric to be used in the Orion space capsule and

expanded its high-temperature resistant Oxide-Oxide ceramic composite material portfolio to applications reaching 1,400°C through its other subsidiary Axiom Materials.

As the Sabancı Group, sustainability is one of the subjects we step forward in as a pioneer in the society and constantly force ourselves for progress. As a prime supporter of Sabanci Holding's "We unite Turkey and the world for a sustainable life with leading enterprises" vision, Kordsa possesses the strong technologic infrastructure and deep-rooted innovation culture crucial for sustainability.

In the upcoming period, we will continue to create value for our customers, employees, investors, and all the fields and societies we operate within and spread our mission to reinforce life on a global scale with our focus on sustainability.

I would like to thank all of our stakeholders who have been with us on Kordsa's sustainable reinforcement journey for their contributions to our achievements and especially our employees who have been in charge of their duties devotedly under the most challenging circumstances.

Sincerely,

CEVDET ALEMDAR

Chairman of The Board of Directors

MESSAGE FROM OUR CEO



Dear Stakeholders.

At the core of our understanding of sustainability lie the following goals: to create economical value for our shareholders and investors through growth with technology investments in all three main lines of our business, to maintain the constant development of our skilled human resources, and to create sustainable value for all of our stakeholders by using the natural resources responsibly.

As the economic impact of the COVID-19 pandemic continued to be felt across the entire globe, we continued to maintain our business continuity and produce "sustainable technologies" in the geographies we operate and on the road we took with the vision "We Are Inspired to Reinforce Life".

As we were completing our 2020 Sustainability Roadmap which included our five-year sustainability targets and actions, we also updated our 2025-2030-2050 targets toward our strategic priorities from 2020 on in a way that would support the associated targets of the UN Sustainable Development Goals, and we started to implement the Kordsa 2050 Sustainability Roadmap.

Industry, Innovation and Infrastructure

At Kordsa we see R&D, innovation, technology and digitalization as the facilitators of our sustainable consumption and production

As the economic impact of the COVID-19 pandemic continued to be felt across the entire globe, we continued to maintain our business continuity and produce "sustainable technologies" in the geographies we operate and on the road we took with the vision "We Are Inspired to Reinforce Life".

goals in particular. In our R&D centers we use the nylon yarn we recycle in the tire reinforcement sector and work on technologies that reduce fuel consumption by reducing friction resistance. We develop products and technologies that reduce fuel consumption and carbon emission by making vehicles lighter in the composites sector, and more durable and practical products and technologies in the construction sector. As of 2020 year-end, our Science, Industry and Technology Ministry approved R&D projects increased by 5%, and the number of registered patents was 228. The revenues from the new products reached 41 million dollars in 2020.

We are focusing on automation, data acquisition, data security and sensor technologies through 'Lean Digitalization'. We are able to access to the data of all facilities from a single point mobile and work out the necessary improvements with ease. All these investments make it easier for us to be able to fulfill our sustainability goals.

Responsible Consumption and Production

Our works in the circular economy field continued in 2020. We are working on making our scraps go back into the production process and create value for the economy. We prevented approximately 2.4 million pieces of material from going into waste by reusing them, ultimately saving nearly 2.7 million dollars. Average reuse rate across our entire facilities rose from 14% to 28%.

We are targeting to reduce our emissions by 17.5% until 2025 as part of combat global climate change. We are also targeting to reduce our waste water production and water consumption by 50% step by step until 2030 and increase the use of renewable energy in all of our facilities every year. Our 2021 target is to increase the portion of renewable energy use in total energy consumption to

In the 2020 evaluation of the CDP (Carbon Disclosure Project), which is the only independent body to report companies' carbon and water-based risks on a global scale, we raised our rating in the Climate Change and Water Programs to A- and became one of the three leading companies in this field in Turkey. We are among the companies that comply with Ecovadis requirements in the maintenance of sustainability in global supply chains. We increased our score in the Ecovadis' evaluation of 40,000+ companies in the 2015-2019 period for sustainability works and had ourselves placed in the Gold Rated Company category.

Decent Work and Economic Growth

We continued our investments and projects for nearly 4,500-strong human resources in five countries including subcontractors uninterruptedly to provide them with a healthy and safe work environment that supports their productivity, protect their rights as humans and workers, and provide our skilled workers platforms for personal development necessary for their long-term employment.

In 2020 we updated our Human Resources policy in line with the global expectations and demands and prepared our Sustainable Employment Policy. We provided our employees with 56 hours of training per person on average. Three of our facilities ended the year with zero accidents, and the average number of accidents registered was one per facility.

2020 was a year when we took important steps in caring for our suppliers' sustainability impacts. We managed to have 73% of our global suppliers take part in our 2020 supplier sustainability evaluation survey.

Gender Equality

In Kordsa we practice an equal opportunities policy from recruitment to retirement and provide everyone an equal working environment. Our multicultural structure in Kordsa brings the diversity along with it. This variety and cultural diversity form the basis of our corporate culture. In 2020, we put many exercises and projects into practice that will empower our female employees and also female engineers outside our company. We are aiming to increase the ratio of our female employees in our offices to 45% by 2025.

Ouality Education

With the voluntary participation of our employees in Kordsa, we are running projects that support the education of the children and the adolescent youth and empower their future regardless of their community, gender and income level backgrounds in the regions where our facilities are located.

In 2020, we collaborated with The Teachers Academy Foundation (ÖRAV) in the development of the teachers at the primary school we had renovated in Izmit. We supported three personal and professional development training programs for 109 school teachers in total.

We will continue to work with courage and devotion to make 'We Are Inspired to Reinforce Life' vision real in Kordsa. I would like to thank all of our employees, our business partners, customers and shareholders who have been with us in our works in these challenging times and contributed to our efforts in creating a sustainable world.

Sincerely,

ALİ ÇALIŞKAN CEO



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CORPORATE PROFILE



As Kordsa, we develop innovative and value-added reinforcement technologies for a safer, more efficient, and sustainable world. With our tire reinforcement technologies, we reinforce one in every three car tires and two in every three aircraft tires manufactured in the world today. Through our composite technologies we reinforce the wings, bodies, cabin interiors and engines of aircrafts while reinforcing airfields by means of our construction reinforcement technologies. We carry the field that we reinforced with our vision, "We are inspired to reinforce life" to aerospace.

We reduce fuel consumption by reducing rolling resistance of tires and helping to build lightweight vehicles thanks to our reinforcement technologies. Moreover, we contribute to our stakeholders' sustainability goals by using recycled yarns in tire reinforcement technology. We provide construction reinforcement technologies for sustainable building projects, which stand out with their low carbon emission and durability features.

AWARDS and ACHIEVEMENTS

Supply Chain Excellence Award

Kordsa was deemed worthy of Apollo Golden Partner – Supply Chain Excellence Award at Apollo Global Partners Summit of India based manufacturer Apollo Tyres.

Automotive Quality Management Certificate

Kordsa obtained IATF 16949 Automotive Quality Management System Certificate.



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KORDSA FACTS & FIGURES





^{*} Data represents white-collar employees. Among all employees, the rate of female employees reached 13.5%.



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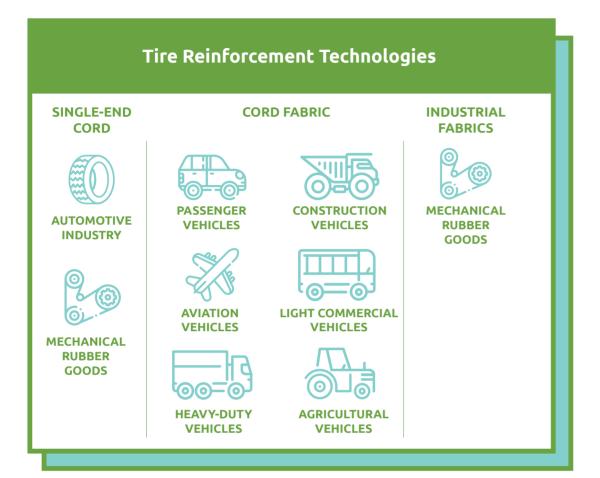
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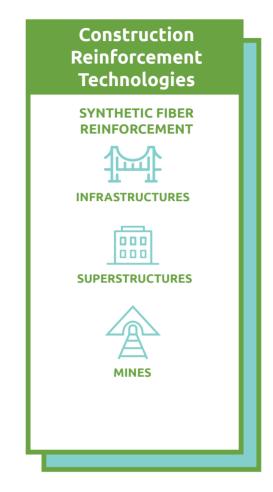




PRODUCTS, INDUSTRIES, MARKETS







* Resin impregnated fabric



In the tire reinforcement industry, we manufacture cord fabric and single end cord products that provide flexibility and durability to vehicle tires in our high-tech factories. Our technology leadership, experience in reinforcement technologies and R&D works along with "The Reinforcer" title position us as the strategic partner of leading tire manufacturers.

In composite technologies, we produce innovative by-products and practices for aviation, automotive, maritime and rail systems industries. In our plants in Turkey and USA, we provide design, analysis, material library, prototype production services and develop fabric, resin and prepreg in line with our customers' needs.

In construction industry, we stand out with our innovative macro and micro synthetic fiber reinforcements that provide ease of use, fast applicability, less labor work, energy efficiency, high concrete density, longlasting durability, and low carbon emission in concrete reinforcement applications for both infrastructure and superstructure concrete reinforcement projects.



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KORDSA IN THE WORLD



NORTH AMERICA

BUSINESS AREAS Tire Reinforcement Composite

TURNOVER

TL 1,462 **MILLION**

SOUTH AMERICA

TURNOVER

MILLION

EMEA

BUSINESS AREAS
Tire Reinforcement
Composite
Construction Reinforcement
R&D Centers

TURNOVER

TL 1,459 **MILLION**

ASIA PACIFIC

BUSINESS AREAS Tire Reinforcement

TURNOVER

TL 1,068 **MILLION**

TURNOVER DISTRIBUTION BY REGIONS





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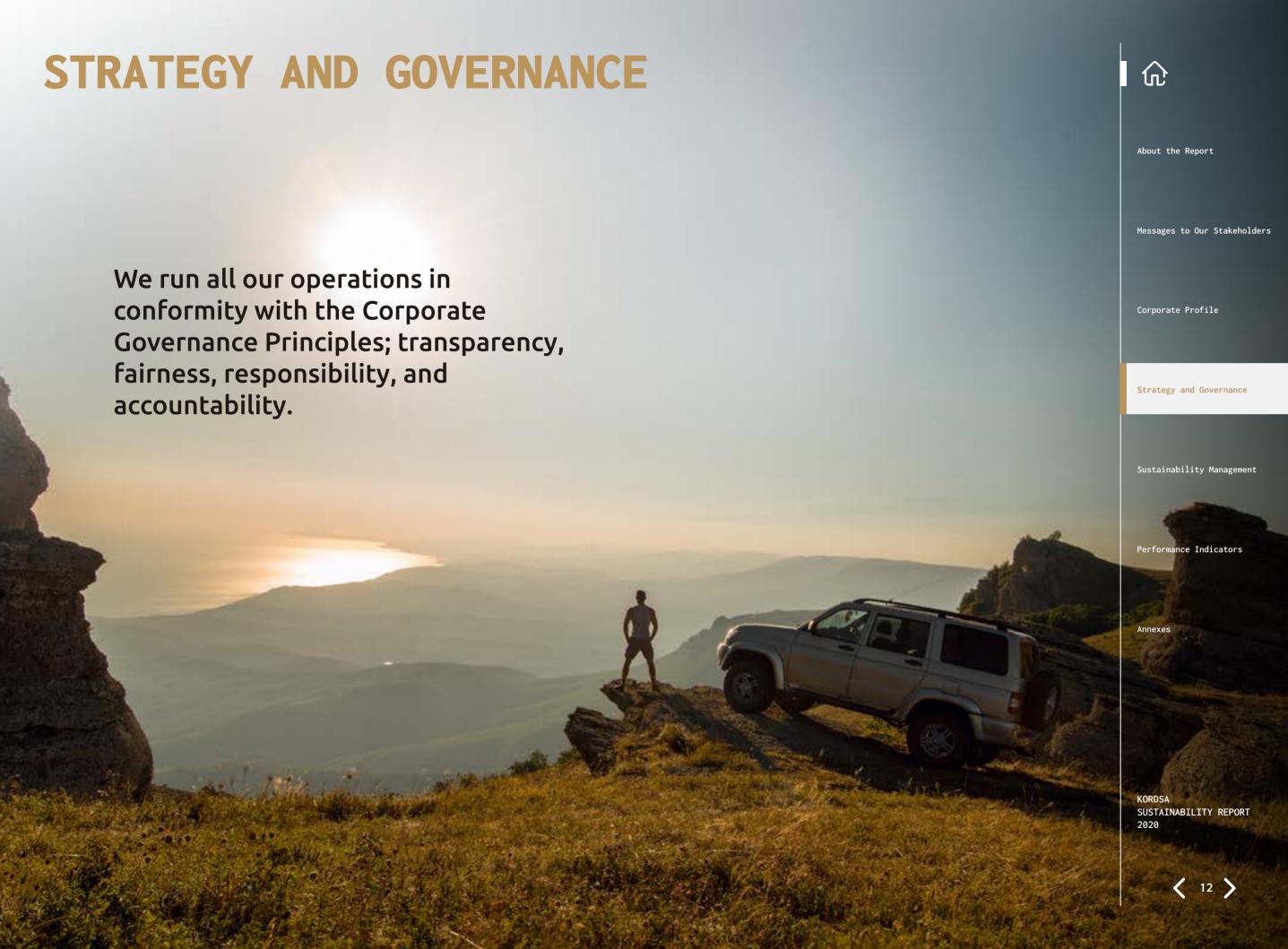
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STRATEGY AND GOVERNANCE



In every geography we operate, we execute all our operations in compliance with regulations and corporate ethical values, and with our social and environmental responsibility awareness that we extend among our employees.

In the basis of our sustainability understanding, there lies creating sustainable value for all our stakeholders by using natural resources responsibly. We mean to achieve this by growing in our main business lines through our technology investments to create economic value for our shareholders and investors and ensuring continuous development of our talented human resources.

AWARDS and ACHIEVEMENTS

BIST Sustainability Index

Kordsa, among the 58 companies with the highest corporate sustainability performance, entered Istanbul Stock Exchange Sustainability Index for the 5th time.





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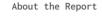






KORDSA STRATEGY HOUSE





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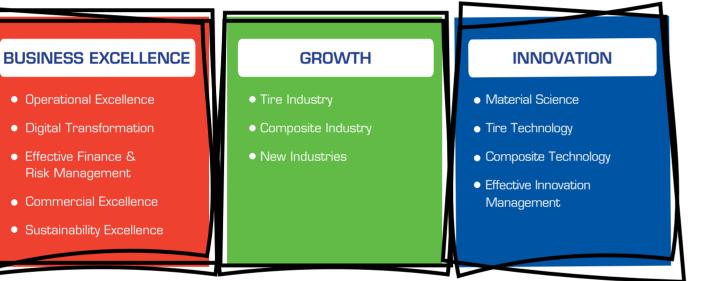
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KORDSA SUSTAINABILITY REPORT 2020



Pillar Initiatives



PEOPLE

Customer Continuous SHE **Ethics** Courage **Passion Collaboration Focused Improvement**

MISSION

Deliver high value-added reinforcement solutions globally.

SAFETY, HEALTH AND ENVIRONMENT

We work carefully, disciplined, and programmed. Following HSE rules, we create safe working areas.

ETHICS

We work with an honest and transparent approach and comply with Ethical Rules and Policies.

CUSTOMER FOCUSED

We know the demands and expectations of our customers, we work in line with these demands and expectations, and provide competitive advantage.

COURAGE

We express our ideas freely, take calculated risks and are not afraid to make mistakes. We take responsibility and act by taking initiative.

PASSION

We approach every work we do with enthusiasm, excitement, and determination by believing wholeheartedly; we prompt our whole environment with our energy.

COLLABORATION

We create the environments to ensure the participation of all relevant stakeholders, encourage them, value different ideas and provide the highest benefit through multiple collaborations.

CONTINUOUS IMPROVEMENT

We question ourselves and our work with a positive curiosity excited from innovation. To be always better, we learn from our past experiences, develop with our vision of the future, and become the pioneer of change.

ALIGNMENT OF STRATEGIES



Our vision, strategic initiatives, and values that we updated in 2019, match with our material topics that shape our sustainability strategy.

	Pillar Initiatives	Material Sustainability Topics	Values	
	Business Excellence	Supply Chain Management All Environmental Topics	Customer-Focused	
	Growth	Sustainable Growth		
Pillar Initiatives	Innovation	Raw and Other Materials Management All Environmental Topics	Continuous Improvement	
	People	Employment Equal Opportunities and Diversity Training and Development Human Rights Community Development	Соигаде	
Values	Safety, Health and Environment	Occupational Health and Safety Energy Management Emissions Management Waste Management	Passion	
	Ethics	Water Management Compliance Anti-Corruption	Collaboration	
		Values		

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CORPORATE GOVERNANCE



Kordsa Board of Directors represents and governs the company by monitoring the compliance of the company activities to the laws and regulations, articles of incorporation, internal regulations and determined policies. The board oversees Kordsa's long-term interests by making strategic decisions considering the company's ESG risks, growth, and gains.

Our Board of Directors consists of six members, and we have two independent members, one of whom is a woman (17%). One of the independent members is the chair of Early Risk **Identification Committee** and member of Corporate **Governance and Audit** Committees. The second independent member is the chair of both Corporate **Governance and Audit** Committees and member of Early Risk Identification Committee. All members except independent members hold executive functions.

INTERNAL STAKEHOLDER VIEW

79% of our employees who responded to the sustainability assessment survey think that...

Kordsa manages all its business processes in line with corporate governance principles which are transparency, fairness, accountability, and responsibility.

Committees Reporting to The Board

Responsibility on Sustainability Topics

Audit Committee	Sustainable GrowthSupply Chain ManagementCompliance and Anti-Corruption	
Corporate Governance Committee	 Sustainable Growth Supply Chain Management Compliance and Anti-Corruption Employment Human Rights Equal Opportunities and Diversity Community Development 	
Early Risk Identification Committee	 Sustainable Growth Supply Chain Management Compliance and Anti-Corruption Occupational Health and Safety All environmental topics * 	

^{*} Energy Management, Emissions Management, Waste Management, Water Management

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BUSINESS ETHICS





The Code of Business Ethics that regulates Kordsa's relationships with its customers, employees, shareholders, suppliers, business partners, competitors, the environment and society cover four main topics: legal obligations, integrity, confidentiality and conflict of interest. Kordsa Code of Business Ethics is available in the native languages of the countries we operate in (Turkish, English, Bahasa, Thai, and Portuguese) and is published on our website.

2020 Global Legal and Compliance Department **Activities**

- We provided all our employees with online and class trainings on the 6698 Law on Personal Data Protection (KVKK), and continued our harmonization works to KVKK regulations.
- Within the framework of the Competition Law Compliance program, we started to work on the Competition Law Compliance Manual, Competition Policy and Employee Training.
- We established an Export Control Policy that is applicable across all our group companies in line with the Sanctions & Export Controls Compliance Process
- We provided export control trainings and sexual violance awareness trainings to our employees in our companies in the US.
- We edited the employee handbook that includes employee rights according to the changes in regulations.

INTERNAL STAKEHOLDER VIEW

85% of our employees who responded to the sustainability assessment survey think that...

Kordsa's policies, trainings and audits on compliance including anti-bribery and anti-corruption are adequate.

Kordsa Code of Business **Ethics**

The processes of ethics management are explained on our website.

Anti-Corruption and Anti-Bribery

Kordsa Anti-Corruption and **Anti-Bribery Policy**

Compliance Management

The processes of compliance management are explained on our website.

2020 Results

Our 1,462 (1) white-collar employees received a total of 1,488 hours of ethics training in 2020. We provide our blue-collar employees with ethics training as part of their on-the-job trainings. Ethics training comprise the topics of bribery, corruption, fraud, discrimination, mobbing and human rights.

We received two notices through our Ethics Hotline, both of which were resolved. In this period one corruption case was discovered, for which three employees received disciplinary penalty.

No public cases on compliance occurred and/or finalized on environmental, social or governance topics against Kordsa. Kordsa paid 676,220,39 TL noncompliance fines because of customs, taxes, and social security regulations. The related departments took the necessary precautions against the duplication of these fines.

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Country	Legal Updates	Impact on Kordsa	Actions Taken by Kordsa
Turkey	Amendment to The Regulation on Commercial Communication and Commercial Electronic Messages (January 2020 for some articles, and September 2020 for others)	It has been made mandatory on all sole traders and companies who wish to send commercial electronic messages to register to a new system named Commercial Electronic Message Management System ("IYS"). As a company that sends commercial electronic messages, Kordsa must fulfill its obligation to register to this system.	We completed our IYS registration as per Amendment to The Regulation on Commercial Communication and Commercial Electronic Messages on August 6, 2020. We uploaded the entire existing electronic message recipients list to IYS. Since this is a continuing process, new recipients will be added to the system as and when they come in.
Turkey, USA, Indonesia, Thailand, Brazil	Amendment to the Law on Protection of Competition (June 2020) and Competition Law Compliance Program	The Amendment to the Law on Protection of Competition is not expected to have any impact on our regular activities.	We started the Competition Law Compliance Program where we provided online and vis-à-vis trainings in order to raise awareness among Kordsa employees and initiated the preparation of a guide on the topic.
Turkey	Communiqué on Common Principles Regarding Significant Transactions and The Retirement Right (June 2020)	It will be mandatory to act according to the amended principles in this communiqué if any transaction falls under the definitions in the Communiqué on Common Principles Regarding Significant Transactions and The Withdrawal Right and is made after its date of effect.	We informed the Finance Department of the changes in the regulations to make sure that we act in compliance to the law.
Turkey	Amendment to the Communiqué on Corporate Governance (October 2020)	Kordsa is subject to the principles of sustainability as per the Amendment to the Communiqué on Corporate Governance, therefore the declarations within the principles of sustainability compliance framework must be included in the corporate governance compliance reports. Henceforth, it will be mandatory to include and comply with the principles laid out in the Principles of Sustainability Compliance Framework as published by the Capital Markets Board (CMB) when preparing the annual reports in 2021, and the years thereafter.	We informed the departments of Finance and Corporate Communications & Sustainability of the changes in the Communiqué on Corporate Governance. The Corporate Communications & Sustainability Department prepared a list of principles that would be included in the annual reports, which we are set to include in our 2020 Annual Report. We planned to have the Code of Conduct amended according to the Advertisement and Marketing Ethics. We planned to have the Anti-Bribery and Anti-Corruption Policy amended in line with the honest tax principles.
Tayland	Data Protection Law	Although the effective date of the relevant Law is postponed to 01.06.2022, detailed analysis regarding data transfer and changing the way of business will be required.	We initiated the analysis work and preparation of the policies and procedures.
Brazil	Data Protection Law	Developments in Data Protection Law at our Brazilian subsidiary will be followed and adapted within the scope of data processing and transfer processes.	We started to evaluate the compliance process of Kordsa and its subsidiaries within the scope of comparative data protection law.
USA	US Data Regulations and California Consumer Privacy Act	Developments in Data/Privacy Protection Law at our US subsidiaries will be followed and adapted within the scope of data processing and transfer processes.	We initiated the analysis work and preparation of the policies and procedures.



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TRENDS and RISKS

When we evaluate our risks at Kordsa we follow not only the in-house risks, but also the changes globally, and prepare our company for the future by taking global issues, industrial trends, possible regulation changes and external factors all into account. Besides mobility, new technologies and digitalization trends that affected our business directly in 2020, we also followed the new legislative changes and global regulations of the EU Green Deal.

Mobility Trend

In Kordsa, we follow the developments and trends in mobility closely because of our products and solutions in the fields of tire reinforcement and composites.

A research and analysis carried out by the globally renowned consultancy firm McKinsey revealed the mobility trends of today and tomorrow and the impacts these trends will have on diverse set of industries. According to the consultants at McKinsey, the progresses in the four basic trends in the industry, autonomous drive, electrification, connectivity, and the vehicle sharing look like they will create a groundbreaking change not only in the automotive sector, but also in many other fields such as insurance, service, and public sectors.

Because battery-operated electric vehicles have larger battery capacities and the need for a flexible structure for the protective material for the battery cells and the flexural stiffness requirements that come with it, carbon-fiber is becoming a good choice as material. Therefore, one of the focal points for Kordsa will be battery-operated electric vehicles. Kordsa will continue to develop its technologies to serve materials for both today's, and tomorrow's transport vehicles, from passenger cars to spacecrafts and drones.

The appeal to electric vehicles is increasing very rapidly on both the manufacturer and the consumer end. Electric vehicles with low carbon emission are playing an important role in the future of mobility. According to McKinsey Center for Future Mobility Report, 20% of the people who are considering a vehicle purchase show interest in electric vehicles. According to the International Energy Agency, to reach zero emissions targets by 2050, the share of electric vehicles in the global vehicle market must increase to 50 percent by 2030.

In 2020, Kordsa achieved an important success in this field, too. The collaboration with the British manufacturer TRB Lightweight Structures since the beginning of the year resulted in Kordsa's carbon-fiber fabrics being used in the mass-production of the battery sections for electric vehicles. We aspire to contribute to the world's transition to sustainable transportation with our carbon-fiber fabrics.



As Kordsa, we are following the mobility trends closely, and providing the British electric car battery cell housing manufacturer TRB Lightweight Structures carbon-fiber fabric, which makes their battery cell housings lighter and safer. We are aiming to contribute to the world's transition to sustainable transportation with this product of ours.

EU Green Deal

Combatting climate change, which comes first in the World Economic Forum Risk Perception Survey, and transition to low-carbon society are among the most important challenges of today.

The Green Deal roadmap which EU announced in 2019 lays out the actions to be taken to achieve zero emission value by 2050. EU officially announced that they will reduce the greenhouse gas emissions by 50-55% compared to 1990 levels by 2030. Other countries that countersigned the Paris Agreement started to announce similar targets as well.

Even though there is no target or operational Trade Emission System in Turkey now, we are following these developments closely for our trade with European countries.

New Technologies and Digitalization

One of the most striking powers today is the huge speed in the advent of technology and its direct impact on all industries in the world. To renew and digitalize our processes and trigger innovation, we need to embrace this potential.

Digitalization of operations and management based on clear data is getting more critical every day in us taking more data-based decisions. New digital applications open us to opportunities where we can offer more efficient products through more value-creating processes thanks to robots and artificial intelligence technologies and reduce the effects on our total value chain.

The steps that Kordsa takes toward new technologies and digitalization are available in detail under **R&D & Innovation** and **Technology & Digitalization** topics in our report.

Legal Developments

The new regulations that were introduced in 2020 in the countries we are active, their impact on Kordsa's activities and the actions Kordsa took are available under Business Ethics topic in our report.



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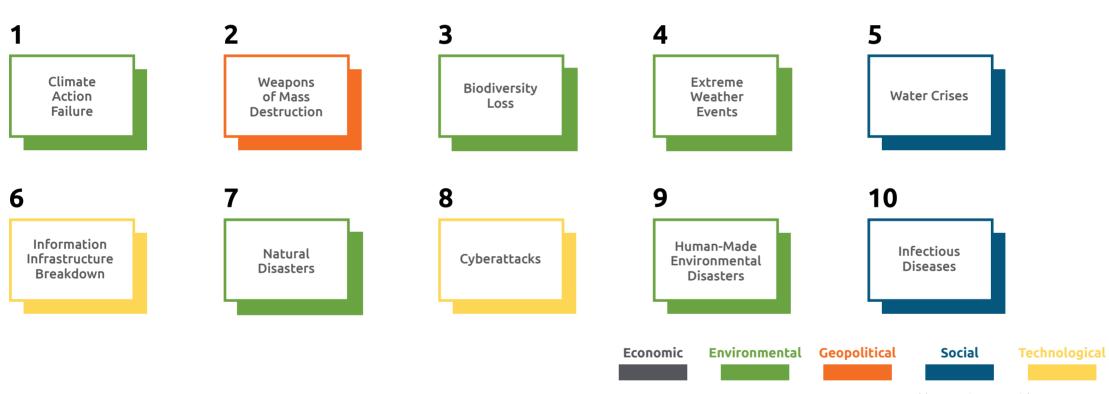


ESG RISK MANAGEMENT



World Economic Forum 2020 Risk Report stated that first of the 10 most likely risks emerging in the next 10 years is failure to mitigate climate change where five of the rest of nine risks also appear to be other environmental and social risks associated with climate change.

World Economic Forum Risk Report 2020 WEF Long Term Risk Outlook Top 10 Risks Over the Next 10 Years



Resource: WEF World Economic Forum Risk Report 2020

At Kordsa, we manage all environmental, social and governance factors that may create risks and actions to mitigate them in accordance with our strategies. In the first quarter of 2020, all Kordsa's subsidiaries worldwide were investigated in detail on country and plant basis, and their risks were listed and prioritized by our Risk Management Department.

Action plans and a Crisis Emergency Management standard covering all facilities were created to manage risks with high-risk scores. Kordsa Executive Leadership Team prioritized the risks and completed the work necessary to monitor crucial risks with critical risk indicators.

Additionally, we defined our technology-related risks, one of the top 10 risks in the World Economic Forum's risk map, under three headings in 2020 and prepared our action plan. Although climate related risks are not included in scenario-analysis risks, Kordsa has renewed all loss of business and third-party indemnity insurances which cover claims for damages of the investment amounts, 12-month revenue loss and potential deficits due to extreme weather conditions which also cover high-risk natural disasters in 2020. Climate change, water safety and corruption risks are considered in high-risk category by the Risk Committee.

WEF Risks	Kordsa's Approaches
WEF 1: Climate Change Risks	Energy Management and Emissions Management
WEF 5: Water Security Risks	Water Management
WEF 6 and 8: Data Security and Cyber-Attack Risks	Technology & Digitalization
WEF 4, 7 and 9: Natural Disaster Risks	ESG Risk Management
WEF 10: Infectious Diseases	Measures for Covid-19 Pandemic
WEF 3: Biodiversity Loss	Kordsa <u>Web Site</u>
WEF 2: Weapons of Mass Destruction	This risk is irrelevant to our operations.

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MEASURES OF COVID-19 PANDEMIC





As Kordsa, we were successful in business continuity in all our geographic locations during COVID-19 pandemic thanks to our strategic and operational decisions we made since the first day of the pandemic impacts. In 2020, our two facilities in Turkey obtained **TSE COVID-19 Safe Production** Certifications.



Measures of COVID-19 Pandemic

During these are unprecedented times in the world and as Kordsa due to recent COVID-19 (coronavirus) epidemic; keeping our employees, customers, all stakeholders, and their families safe and healthy is paramount. Since the first day that COVID-19 was seen in our country, various administrative and operational decisions have been implemented by our company and factories with precision and in line with the measures on occupational and public health announced by our Ministry of Health and the Coronavirus Scientific Committee.

- Prepared Pandemic Infection Prevention and Control Procedure.
- Carried out arrangements regarding common use areas such as services and cafeteria.
- Kept in touch with our employees weekly in general, and with those who are in risk group daily via I-Am-Fine Surveys, online courses, announcements, telephone, information posters, messages, mailing and videos.
- Sent informative letters to the families of all our employees.
- Got test appointments for our employees and provided transportation to hospital for them when needed.
- Sent employees with symptoms Covid Positive Food Packs and Hygiene Packs.
- Provided distant working opportunity and supplied internet service and computer.
- Provided all employees with disinfectant kits.
- Those who had chronic conditions and those whose job descriptions allowed even though they were not in the risk group were all diverted to work from home.
- Provided food support for those who worked from home.

Thanks to the precautions we took from day one of the pandemic which were also expected by the ministry from the employers, the infection rate in our company has been below 1%.

The statement regarding the measures we have taken is available on the PDP website.

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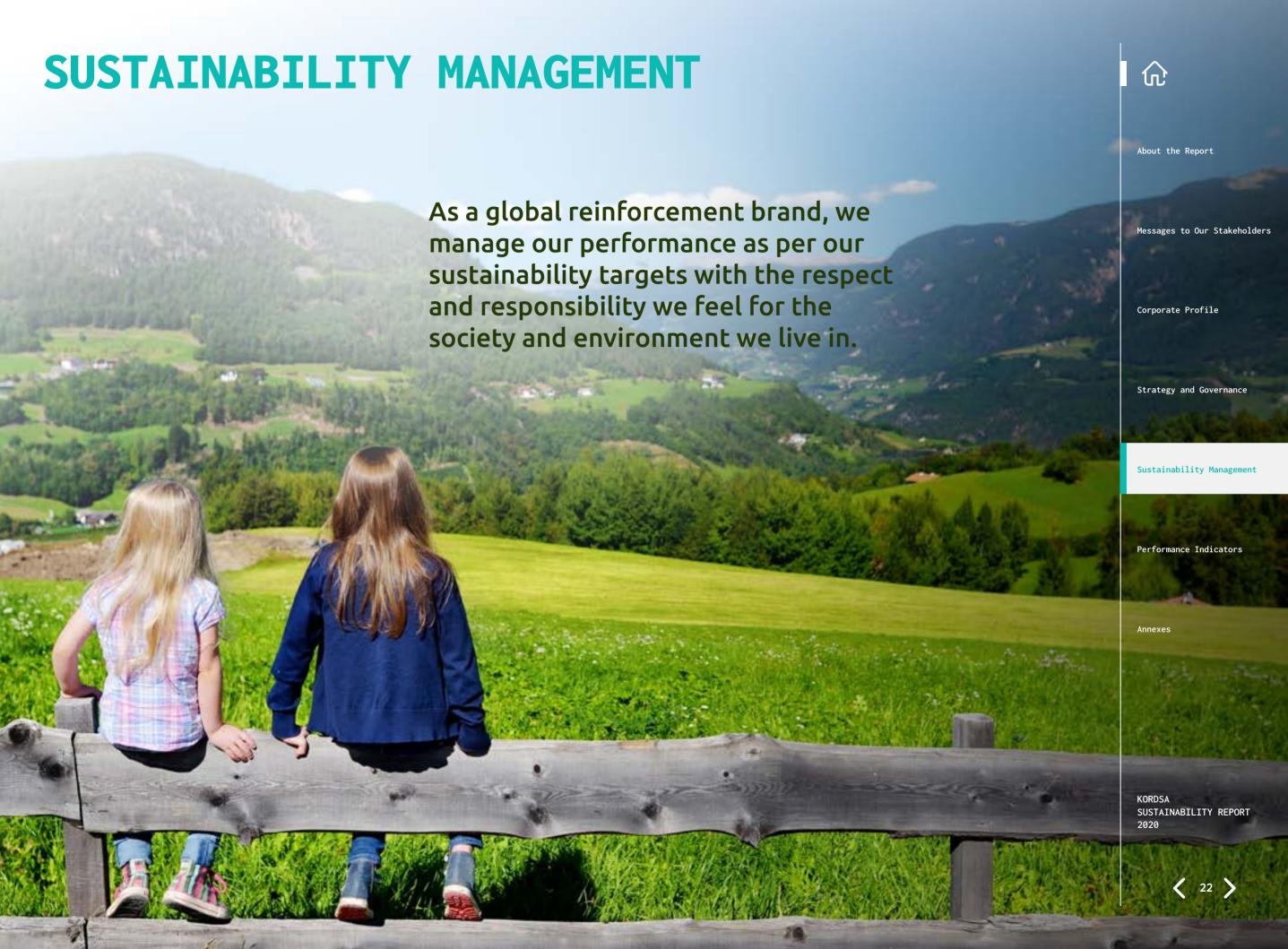
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SUSTAINABILITY MANAGEMENT



In the basis of our sustainability understanding, there exist our goal to create sustainable value for our key stakeholders by growing in our main business lines via R&D and technology investments, constantly developing our talented workforce, using global resources efficiently and conducting social development projects.

AWARDS and ACHIEVEMENTS

Sustainability Rating Certificate

Kordsa took its place in the Gold Company category by raising its overall score in the assessment executed under Environment, Labor & Human Rights, Ethics and Sustainable Procurement topics by Ecovadis, the world's most trusted business sustainability rating which serves over 200 sectors in 160 countries.



Asia's 2nd Best Materiality Reporting

Kordsa, won the Silver Award for Best Materiality Reporting at Asia Sustainability Reporting Awards, where entries are accepted throughout the whole Asia continent.

> Asia Sustainability Reporting Awards Asia's Best Materiality Reporting SILVER 2020





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SUSTAINABILITY MILESTONES

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KORDSA SUSTAINABILITY REPORT 2020

2010

 Joined TBCSD Turkish **Business Council of** Sustainable Development.

2014

- Signed UN Global Compact.
- Prepared CDP Supply Chain report.

2015

- Published Kordsa's first sustainability report.
- Entered Istanbul Stock Exchange 100 Index.
- Won two gold awards from LACP with our sustainability report.

2016

- Started Preparing CDP Climate Change, Water Security and Supply Chain reports.
- Entered Istanbul Stock **Exchange Sustainability** Index.
- Entered Istanbul Stock Exchange 50 Index.
- Prepared Kordsa 2020 Sustainability Road Map.
- Received LEED Gold Certificate with **Composite Technologies** Center of Excellence.

2017

 Continued preparing CDP Climate Change and Water Security reports. CDP Climate Change score was D and Water Security score was C.

2018

- Sustainable Business Awards 2018 Turkey (SR2016). Won Sustainability Report Category 1st Place Award.
- Asia-Pacific Excellence Awards 2018 (SR2016) Won 1st Place Award in Integrated Annual and Corporate Responsibility Report Category.
- LACP Inspire Awards 2018 (SR2016) Won the 1st Place - Platinum Award in Sustainability Report Category.
- Received AS9100* Certification with our Production Plant at Composite Technologies Center of Excellence.
- Raised CDP Climate Change score to C- and Water Security score to B-.

SUSTAINABILITY MILESTONES

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KORDSA SUSTAINABILITY REPORT

2019

- Entered Istanbul Stock **Exchange Sustainability** Index for the 4th time.
- Raised CDP Climate Change score to B and Water Security score to B.
- ARC 2019 Communication Awards of Mercomm (SR2017). Awarded with the Silver Medal in Asia-Middle East and Pacific Region.
- Started to work on Kordsa 2025-2050 Sustainability Road Map.

2020

- •Entered Istanbul Stock Exchange Sustainability Index for the 5th time.
- •Raised CDP Climate Change score to A- and Water Security score to A-.
- •Raised our score in Ecovadis Sustainability Assessment Questionnaire and received Gold Certificate.
- •Received AS9100* Revision D Certification with our Advanced Honeycomb Technologies (AHT) production plant located in the USA.
- •Received Carbon Neutral Certificate trough three main projects to meet its commitment to reduce its carbon level with our US based company Axiom Materials.
- •Revised targets for 2025-2030-2050 Sustainability Road Map.

Our CDP Climate Change and CDP Water Program Scores:



* Conformity with the Aviation, Space, and Defense Industry Quality and Risk Management Standard

















SUSTAINABILITY MANAGEMENT STRUCTURE



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Our performance in our sustainability priorities is embraced at the level of Board of Directors, our supreme governing body in Kordsa. Our Chief Executive Officer (CEO), who reports to the Board of Directors, determines our company's environmental, social and governance (ESG) priorities, risks, and opportunities working with the Kordsa Executive Leadership Team, and develops ESG policies accordingly.

To deploy our sustainability approach to all facilities and departments in our company and to establish a more holistic sustainability management, we established a new management structure.

Our performance in sustainability priorities is embraced at the level of Board of Directors, our supreme governing body in Kordsa. The Board of Directors takes sustainability principles and the environmental impacts of company activities into account when determining its corporate governance strategy. Our targets on our sustainability focus topics are determined through internal review workshops biennially and revised as necessary by the Kordsa Executive Leadership Team, which consists of our Chief Executive Officer (CEO), the Chief Operational Officers in charge of plant operations, and our Directors. Our CEO, who reports to the Board of Directors, works with the Kordsa Executive Leadership Team to determine our company's environmental, social,

and governance (ESG) priorities, risks, and opportunities, and develops ESG policies accordingly. These policies are publicized on our website, following approval by the Board of Directors.

Our Corporate Communication, Brand and Sustainability Manager who reports directly to the CEO leads the Sustainability Management Team, with whom she meets four times a year, and the Sustainability Reporting Group, with whom she communicates constantly during the reporting period. She ensures the coordination between departments and senior management to achieve the relevant goals while coordinating the preparation of the annual sustainability performance report.

In 2020. Kordsa Executive Leadership appointed our Chief Operational Officer EMEA as Kordsa Sustainability Sponsor globally. This appointment will be effective from 2021.

BOARD OF DIRECTORS (Audit, Corporate Governance and Early Detection of Risk Committees) **CEO Deputy General Managers and Directors** Corporate and Brand Communication & Sustainability Manager Sustainability Management Team Reporting Group

Sustainability

Leaders of All Plants

Advisory Members

Market Development - R&D - Supply Chain - Human Resources -Finance - Operations

Departments

Supply Chain - Human Corporate Communication and Sustainability

Representative

Departments - Safety - and the **Environment - Energy** Ouality - TPM

All Strategic Sustainability Impacts

- Occupational Health and Safety
- Employment
- Equal Opportunity and Diversity
- · Human Rights
- Training and Development
- Business Ethics (Compliance and Anti-Corruption)
- Sustainable Growth
- Suppliers ESG Evaluations
- Social Development
- Energy Management
- Water and Wastewater
- Waste Management
- Material and Raw Material

SUSTAINABILITY MANAGEMENT STRUCTURE

Sustainability Management Team

Nine "Sustainability Leaders" working at different plants are permanent members of the Sustainability Management Team. Their duties include monitoring performance indicators set to achieve the sustainability targets envisaged as part of the company's strategic plans and ensuring the implementation of the planned projects that will help reach the targets by following them with the relevant regional departments. The Team also has members from the Market Development, R&D, Supply Chain, Human Resources, Finance, and Operations departments who are not permanent but who act as "Advisory Members" as necessary.

Sustainability Leaders track and report sustainability performance indicators for their regions using the Monthly Sustainability Performance Indicators Tracking Chart. These reports include Kordsa sustainability performance indicators. Sustainability Leaders also create Quarterly Sustainability Performance Tracking Reports, which include tracking and evaluations towards achieving the targets, and are submitted to senior management quarterly. With the new salary and bonus scheme effective from 2022, we aim the results of the annual sustainability targets to be effective on the annual performance marks and pays of the leaders who work in different facilities and departments (CEO and Directors).

Sustainability Reporting Group

The Reporting Group is responsible for ensuring regular data and best practices collection in all company plants for the annual sustainability report. Reporting group representatives collect the information according to the reporting criteria demanded from them, between February and March every year. The reporting group consists of representatives from different departments. These departments are Occupational Health and Safety, Environmental, the Energy Committee, Finance, Supply Chain, Human Resources, Legal, Market Development. Corporate Communications, R&D, Quality, and TPM. The reporting group also includes some of the Sustainability Leaders and some of the Advisory Members.

The Corporate Communication, Brand and Sustainability Department who reports to the Corporate Communication, Brand and Sustainability Manager, works to raise awareness on sustainability through social responsibility projects, awareness events and trainings, as well as brand and communication activities.

At Kordsa, we create implementation and action plans in line with our short and long-term goals and make them public through our reports. We included the actions taken and their results of our first five-year sustainability roadmap in the 2019 Sustainability Report. As part of the new targets set in 2020, we formed four new workgroups. In 2020, Employment and Human Rights, Business Ethics, Environment, and Sustainable Purchasing workgroups all started to design projects and programs to be carried out towards the new five-year goals.

Kordsa Sustainability Road Map 2050

We prepared a five-year sustainability roadmap in the last quarter of 2016 which was approved by Kordsa Executive Leadership Team according to the material sustainability topics that we identified at Kordsa. Considering 2016 as the base year, we prepared all sustainability management actions up to 2020. We accomplished most of our targets by the end of 2019. We decided to include Scope 3 to emission calculation target in all plants in 2020, the one target we could not reach in 2019. Our 2020 Scope 3 data is included in the Emission Management section.

In the second quarter of 2020, we reviewed our strategic priorities and set new short, medium, and long-term sustainability goals based on the United Nations (UN) 2030 Sustainable Development Goals. After examining which UN sub-goals our company's activities serve, we decided to focus on five related goals; SDG 9: Industry, Innovation, and Infrastructure, SDG 12: Responsible Consumption and Production, SDG 8: Decent Work and Economic Growth, SDG 5: Gender Equality, and SDG 4: Quality Education. The sustainability targets we updated in the fourth quarter of 2020 is located here.



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While striving for sustainable development and growth goals at Kordsa, we listen to our key stakeholders and aim to sustain the social and economic benefits that we create for all.

Communication With Our Stakeholders

We define our stakeholders as people and organizations that are being influenced by our activities, and at the same time having impacts on our company to achieve its business targets.

Following the first stakeholder prioritization studies in 2015, we reviewed our stakeholders in terms of their priority after the restructuring of our Sustainability Department in 2019. We grouped our key stakeholders that had an intensive economic, social, and environmental interaction with our company concerning our strategic topics, by the extent they were influenced by our company's activities and their impacts on our company's efforts to achieve its business targets.

In the earlier years we had three groups of stakeholders in terms of communication priorities. As we aimed to have a better focus on our stakeholders and material topics, we grouped our stakeholders in two groups in 2019. These groups are given in **Key Stakeholders** chart. We plan to review our stakeholders every two years as we review our priority topics.

Sustainability Materiality Communications

2015

- Sustainability Project Team / Sustainability Strategy Workshop
- Sustainability Project Team / Stakeholder Prioritization
- Kordsa Executive Lead Team / Sustainability Strategy Survey and one-on-one interviews
- Employees / Sustainability Performance Evaluation Survey
- Customers / Sustainability Interviews

• Employees / Sustainability Performance Evaluation Survey

- Sustainability Task Force / Sustainability Strategy Review Workshop
- Employees / Sustainability Performance Evaluation and Materiality Survey
- Customers / Online Materiality Sustainability Survey

2018

• Employees / Sustainability Performance Evaluation Survey

2019

- Sustainability Task Force / Sustainability Strategy Review Workshop
- Employees / Sustainability Performance Evaluation and Materiality Survey
- Customers / 1-to-1 meetings
- Shareholders and Investors / Direct written and verbal communication channels

- Kordsa Executive Lead Team / Sustainable Development Goals and Focused Targets Determination
- Employees / Sustainability Performance Evaluation and Materiality Survey
- Customers / Online Sustainability Materiality Survey

The communication platforms for our employees and other key stakeholders, together with their content and communication frequency, are included in the **Key Stakeholder Communication** Platforms table.





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► Labor Unions

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67% OF KORDSA EMPLOYEES MENTIONED THAT KORDSA'S EFFORTS

Sustainability Communication with Our Employees

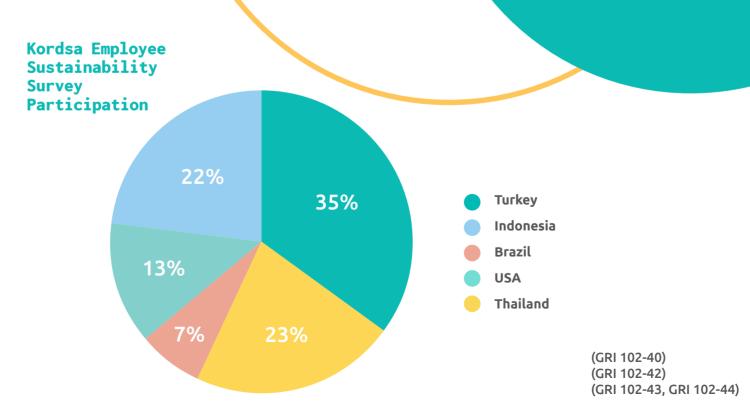
Since 2015, we conduct a sustainability assessment survey annually to raise the awareness of our employees on sustainability and domains of our company. Through this survey, we aim to understand our employees' priorities and gather their opinions on our company's sustainability performance. We share these views in the relevant sections of our report.

344 white-collar employees including engineers, specialists, supervisors, managers, directors, and top management, 35% of which have been working for Kordsa for more than 15 years, participated in the sustainability survey to assess 2020 performance. 34% of the participants responded the survey for the first time where all participants selected and prioritized the topics of their concerns and also evaluated Kordsa's performance on them.

Performance evaluation part of the survey is explained in summary and actions under **Employee Sustainability Survey** topic.

Priorities of Employees*





▶ Employees

▶ Investors

KORDSA

▶ Customers

➤ Shareholders

^{*} Topics which have 20% and higher priority rate are included.

Sustainability Communication with Our Customers

Since the first year of sustainability reporting at Kordsa, we have been communicating with our customers to receive feedback on both our sustainability performance and the strategic issues they expect us to focus on. Each year, we aim to engage more customers in our sustainability processes.

Until 2019, the first topic we included in the report as a result of the feedback from our customers was 'evaluation of social and environmental impacts in the supply chain'. We have been conducting supplier sustainability performance surveys for a growing number of suppliers since 2017. The details are presented under **Selecting Suppliers** topic of the report.

The second issue we heard from our customers was 'human rights', which was also brought up in BIST Sustainability Index evaluations. As a response, we launched **Kordsa Human Rights Policy** effective for all operations from March 2018 on.

In 2020, we carried out interviews with customers from three different product groups with whom we conducted online sustainability prioritization survey. 36% of the participating customers were from tire reinforcement, 22% were from composites and 43% from construction reinforcement technologies market. The feedback we received and the actions we took for them as Kordsa are available in the following pages.

Employee and Customer Online Survey Method

In the surveys, we list all the topics that we receive from Kordsa top management and other stakeholders on an online platform moderated by our consultant and ask all our employees and customers to put them in an order according to their own priorities. If there is a priority that our employees and customers may have but is not already listed, they are given the opportunity to share it freely with an open-ended question. The results of the survey are analyzed by our consultant and integrated in our report.

In both surveys in 2020, we also asked our key stakeholders to prioritize Sustainable Development Goals for Kordsa to increase their awareness.

We ask performance evaluation questions to our employees on primary topics to raise awareness in them and have their opinions on these topics in the meantime. We also asked our customers the reasons behind their decision to work with Kordsa. All results are placed in relevant sections of our report.





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Topics by Key Stakeholders Priority (Summary Table)

Topics / Stakeholders	Employee	Customer	Shareholder** and Investor
Occupational Health and Safety	1	3	4
Sustainable Growth (Economic Performance)	3	6	1
Business Ethics*	2	4	5
Energy and Emissions		2	2
Raw and Other Materials		1	9
Waste Management	5		3
Training and Development	6	7	7
Water Management			3
Human Rights	4		6
Supplier Assessments		5	9
Employment	7		
Equal Opportunities and Diversity	7		8
Community Development			10

¹ represents first priority of the relevant stakeholder.

^{*} Business Ethics covers anti-corruption and compliance.

^{**} Sabancı Holding



Expectations of Our Tire Reinforcement Customers

friendly technologies

Our Actions and Future **Plans**

institutions and H2020 projects.

Aiming to specify the product Life Cycle Assessment (LCA) portfolio to implement LCA in 2021. Integrating social and environmental Run supply chain ESG assessment aspects to supplier selection process Preparing our Ecovadis Report Prepare Ecovadis Report annually Setting targets on GHG emission reduction for 2025, 2030 Monitor and reduce CO₂ emissions and 2050 Monitor and reduce water Setting targets on water consumption reduction for 2030 consumption Prepare CDP Reports Preparing CDP reports since 2014 (Climate Change & Water Security) Use sustainable materials in Are ready for NY6.6 recycling Looking for appropriate sources for production / Monitor and report SMR index (Sustainable Material recycled materials Undertaking works for reprocessing Ratio) and using Kordsa's PET waste. Use recycled raw materials (PET-Started production trials using Polvester) recycled PET chips acquired from Reduce waste and reuse product wastes suppliers. Evaluating LCAs of raw materials Propose low footprint products / Use from our suppliers / Looking for new bio-based materials in production. sources and testing them Bringing up and sharing Kordsa's Find out about Kordsa's sustainability sustainability agenda during approach in detail customer visits Continue working with 3rd parties Collaborate for environmentally like customers, universities



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Expectations of Our Composite Customers

Our Actions and Future **Plans**

Light weighting especially for long-range electric vehicles and aircraft

Meeting and discussing for opportunities / Working together with third parties.

Market preference for sustainable "green" products Drive to re-use or recycle materials at

product end of life

Using reactive thermoplastics or bio-based thermoset resins and develop new resin

Governmental policy, legislation, and consumer pressures to find a solution to endof-life composites

Reprocessing waste and improve manufacturing processes including digital, analytics and sensors.

Thermoset polymer usually being burnt at end of life

Increasing bio-content in resins to reduce CO₂ emissions, using reactive thermoplastics to reduce the cost of producing low volume recyclable thermoplastic parts.

The assessments indicating that CO₃ emissions need to be significantly reduced by 2040 to avoid catastrophic climate change

Working to extend the life cycle of composites to further reduce their environmental impact with associated enhancement to the articulation of the benefits

The cost of waste management and lack of landfill space

Working on supplying our products to assure that they could be fully re-used or recycled at end of life, with no negative sustainability impacts

Regulatory requirements and cost of virgin raw materials

Continue working with 3rd parties like customers, universities, institutions, H2020 projects etc. Especially working with Sabancı University under CTCE roof.

Production of repairable composite structures

Initiated project on repairable composite parts and we continue to discuss with our clients on the current development stage and possible uses.

Eliminating the use of toxic/hazardous materials in fire retardant applications

Continuing works on the development of alternative fire-retardant products. Development of products with prolonged fire-retardance and reduced toxic emissions is crucial.



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Expectations of Our Construction Reinforcement Customers

Our Actions and Future Plans

Eco-friendly concrete reinforcement solutions.

Proposing much lower-carbonfootprint products than existing reinforcement materials made of steel that are produced under high temperatures.

Efficient and less source-consuming application designs.

Providing reinforcement solutions that require less labor and less time compared to conventional wire mesh, while achieving better results.

Greatly enhanced product service life and decreased maintenance needs.

Providing fiber reinforcement technologies that eliminate corrosion risk in concrete and increase its durability resulting with extended service life and minimum maintenance needs, and thus ultimately decreasing energy and source utilization.

Reduce waste and reuse product wastes

Studying on reprocessing and reusing Kordsa's polypropylene technologic waste.

Reduce CO₂ emissions.

Enabling efficient stocking area and less transportation than conventional steel products, as the weight of Kratos needed for one square meter is about six times less than a conventional reinforcement material

Increase the efficiency of systems in magnetic fields.

Supplying synthetic raw materials which are not affected by magnetic fields. Serves advantages on construction projects like smart warehouses, light rail systems, highways, and bridges where signalization is installed.



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Other Expectations of Shareholders* Location of Our Related Disclosure

Technology and Digitalization	Technology and Digitalization
Innovation	R&D and Innovation
Risk Management	ESG Risk Management
Stakekholder Collaboration and Partnerships	R&D and Innovation

^{*}Sabancı Holding's priorities are given in parallel to its own materiality assessment.

Other Expectations of Investors	Our Responses and Actions
Profitability and growth, especially in the field of composites in the coming years	Continue to invest in composites especially in the USA
Request for information about the efforts made to make Kordsa products environmentally friendly	Include relevant information regarding these issues in Investor Relations presentations which are updated quarterly and located on our web site.
Sustainably sourced raw materials and supplier assessment reporting	Integrate social and environmental aspects to supplier selection process
Executive pay including a component that is related to sustainability management and targets	Link executives' salary performance to the performance of all sustainability goals.
Board level responsibility for sustainability management and targets	Attribute all sustainability topics to the relevant Board Committees. Lead and monitor ESG efforts of Kordsa
Biodiversity and ecosystem preservation practices	Kordsa Web Site
Individual Expectations of Employees	Our Responses / Location in Report
Increasing investments on talent and skills management	Training and Development
Deployment of Technological Developments	Technology and Digitalization
Start community projects on recyclable materials	Noted for future evaluation.

MATERIAL SUSTAINABILITY TOPICS



In addition to our employees and customers, we included our shareholders and investors in our stakeholder engagement efforts. We update our matrix annually by taking Kordsa's and four group of stakeholders' priorities into consideration.



Material Sustainability Topics

Since our first report, we regularly review our material sustainability issues with the participation of our Kordsa Executive Leadership Team and the Sustainability Management Team and support the process with key stakeholders' engagement.

Considering the BIST Sustainability Index requirements, we added biodiversity and climate change issues in the evaluation process. Actions towards climate change are given under the **Emissions Management** topic in the report.

As our plants are located within industrial zones. biodiversity is not in our area of high impact. So, we disclosed our general approach regarding biodiversity conservation on our web site for BIST evaluation.

Supplier Assessments, as a topic brought up by our major customers in the previous years, are also placed in the matrix this year. In the matrix, compliance and anti-corruption topics are covered under Business Ethics.

In addition to our employees and customers, we included our shareholders and investors in our stakeholder engagement efforts in 2019. In this regard, we update our matrix annually by taking Kordsa's and four group of stakeholders' priorities into consideration. We present feedback of previous years from our key stakeholders in this section of the report and disclose feedback from the current reporting period in **Communication** with our Stakeholders section.

Each year, priority material topics are approved by Kordsa Executive Leadership Team before publishing. In 2020, our priority topics remained unchanged after employee and customer surveys.

The explanations on how we grouped the material topics into two are given on the same page of Kordsa Sustainability Matrix.

We present our prioritized topics as main headings that include the Sustainable Development Goals. The relevant explanations are given under Material Topics and UN 2030 Global Goals.

In the coming terms, we will continue to exchange ideas with the four key stakeholder groups which are our employees, customers, shareholders, and investors, and further develop our goals regarding our focal points.



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MATERIAL SUSTAINABILITY TOPICS

Decisions on Kordsa)

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Kordsa Materiality Matrix

y Matrix High

GROUP 1 Occupational Health and Safety Sustainable Growth **Business Ethics* Energy and Emissions** Raw and Other Materials Waste Management Water Management **Human Rights Supplier Assessments** Training and Development **Employment Equal Opportunities and Diversity** Community Development **GROUP 2** Biodiversity Low

SIGNIFICANCE OF IMPACTS FOR KORDSA (Reputation, Regulatory, Financial, Operational)

Legends

Group 1: Topics raised by three or two of our key stakeholders.

Group 2: Topic raised by one of our key stakeholders and we provide the related disclosures only on our web site.

^{*} Business Ethics covers Anti-Corruption and Compliance.

SUSTAINABILITY IMPACTS ALONG OUR VALUE



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CHAINS



In 2018, we included our product value chains in our report to identify the boundaries of impacts of our material topics in tire reinforcement and composite business areas. In 2019, we defined and included our impacts in construction reinforcement business as well. In 2020, we included our focused SDGs on this diagram.

SUSTAINABILITY IMPACTS ALONG KORDSA'S VALUE CHAINS

(TIRE REINFORCEMENT, COMPOSITE AND CONSTRUCTION REINFORCEMENT TECHNOLOGIES)

MANAGEMENT

Sustainability Impacts

• Occupational Health and

• Supply Chain Management

• Training and Development

• Equal Opportunity and

• R&D and Innovation

• Community Development **Sustainability Facilitators**

• Technology and Digitalisation

• Business Ethics

• Human Rights

• Employment

Diversity

of Kordsa

• Sustainable Growth



PROCUREMENT

Sustainability Impacts (Direct)

- Supply Chain Management
- Raw and Other Materials Management
- Business Ethics
- Human Rights

Sustainability Impacts (Indirect)

- Sustainable Growth
- Training and Development
- Employment
- Energy and Emissions Management





PRODUCTION

Tire Reinforcement • Tire Cord Fabric

• Single End Cord

(Direct)

- Composite Prepreg

(Resin Impregnated

Sustainability Impacts (Indirect)

- Occupational Health and Safety
- Raw and Other Materials Management
- Energy and Emissions Management
- Waste Management

Sustainability Impacts

• Water Management

• Training and Development

Construction

• Synthetic Fiber

(Micro and Macro)

- Employment
- Human Rights



SALES

Sustainability Impacts (Direct)

- Business Ethics
- Sustainability Impacts (Indirect)
- Training and Development
- Employment



CUSTOMERS

(Tire - Automotive - Aerospace - Construction)

Sustainability Impacts (Direct)

- Business Ethics
- Sustainable Growth

Sustainability Impacts (Indirect)

- Training and Development
- Employment





TRANSPORTATION

(Vessels - Trucks - Airplanes)

Sustainability Impacts (Direct)

• Business Ethics

Sustainability Impacts (Indirect)

- - Occupational Health and Safety
 - Human Rights
 - Energy and Emissions Management
 - Waste Management



(GRI 102-46)

MATERIAL TOPICS AND UN 2030 **GLOBAL GOALS**



Our Journey to Support UN Sustainable Development Goals!

- We signed the UN Global Compact in 2014 and started to support the vision of "sustainable and comprehensive global economy" with our commitments.
- Following the announcement of the Sustainable Development Goals (SDG) by the UN in 2015, we have matched 13 of the global goals with our sustainability focus topics.
- In 2019, we decided to focus on the related five SDGs after examining which sub-goals Kordsa activities serve.
- SDG 3 Good Health and Well-Being was brought forward by our employees and customers in the stakeholder engagement surveys in 2020 because of Covid-19 pandemic.

UN 2030 Sustainable Development Goals	UN Targets Supported by Kordsa	Related Disclosure Topics Located in the Report
9 INDUSTRY INNOVATION AND INFLIST RUCTURE	 9.4: By 2030, with each country acting in accordance with its own capacity, improve infrastructure and reinforcement industries in a way that renders them sustainable, through increasing more efficient use of resources and further adopting more solid clean and environmental-friendly technologies and industrial processes more. 9.5: Encourage innovation in all but particularly developing countries by 2030, improve scientific research, and expand the technological capabilities of industries through increasing the number of R&D experts per 1M people, public and private studies and governmental spending substantially. 	R&D & Innovation Technology & Digitalization R&D & Innovation
12 RESPONSIBLE CONSUMPTION AND PROJUCTION	12.2: By 2030, achieve the sustainable management and efficient use of natural resources 12.4: By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment 12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse	Energy Management Water Management Materials Managament Emissions Management Waste Management
8 DECENT WORK AND ECONOMIC GROWTH	8.2:Pushing economic efficiency to higher levels through focusing on high value added and labor-intensive industries and by diversification, technology development and innovation8.8: Protect labor rights and promote safe and secure working environments for all workers	Sustainable Growth Employment Training and Development Human Rights Occupational Health and Safety
5 GENDER EQUALITY	5.1: End all forms of discrimination against all women and girls everywhere5.5: Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life	Employment Equal Opportunities and Diversity
4 QUALITY EDUCATION	 4.1: By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes. 4.c: Significantly increase the number of qualified teachers through international cooperation for teacher trainings in developing countries by 2030 	Community Development Community Development



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COMPLIANCE WITH DEVELOPING GLOBAL SUSTAINABILITY **STANDARDS**





In every phase of our sustainability journey as Kordsa, we follow the progresses in international standards that will develop our sustainability vision and targets to increase the value we create for our company and our key stakeholders.

We believe that integrating financial values with non-financial ones is highly essential. In that regard, we reviewed the related SASB standards for each sector that we have relations and interactions with, and in our report, we gave references to the issues that stand out in the sectors we supply products and services to and how we contribute to the related key performance indicators. You can see the details in the following tables.

SASB Auto Parts Standard 2018 SASB Aerospace Defense Standard 2018 SASB Construction Materials Standard 2018 Common Sustainability Topics and KPI's

Topic	Accounting Metrics	How Kordsa Responds
Energy Management	(1) Total energy consumed,(2) percentage grid electricity,(3) percentage renewable	Location in the Report Energy Management
Product Safety	Number of recalls issued; total units recalled	Location in the Report R&D and Innovation
Waste Management	(1) Total amount of waste from manufacturing,(2) percentage hazardous,(3) percentage recycled	Location in the Report Waste Management

SASB Auto Parts Standard 2018 Other Sustainability Topics and KPI's				
Topic	Accounting Metrics	How Kordsa Responds		
Data Security	(1) Number of data breaches, (2) percentage involving confidential information	Location in the Report Technology and Digitalization		
Materials Sourcing	Description of the management of risks associated with the use of critical materials	Location in the Report Supply Chain Management		
Business Ethics	Total amount of monetary losses as a result of legal proceedings associated with incidents of corruption, bribery, and/or illicit international trade	Topic in the Report Business Ethics		

SASB Aerospace Defense Standard 2018 Other Sustainability Topics and KPI's				
Topic	Accounting Metrics	How Kordsa Responds		
Design for Fuel Efficiency	Revenue from products designed to increase fuel efficiency and/or reduce emissions	Location in the Report R&D and Innovation		
Materials Efficiency	Percentage of recyclable products sold Percentage of input materials from recycled or remanufactured content	Location in the Report Raw and Other Materials Management		
Competitive Behavior	Total amount of monetary losses because of legal proceedings associated with anti- competitive behavior regulations	Location in the Report Business Ethics		
		·		

SASB Construction Materials Standard 2018 Other Sustainability Topics and KPI's				
Topic	Accounting Metrics	How Kordsa Responds		
Greenhouse Gas Emissions	Gross global Scope 1 emissions, long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets	Location in the Report Emissions Management		
Water Management	(1) Total fresh water withdrawn, (2) percentage recycled, (3) percentage in regions with High or Extremely High Baseline Water Stress	Location in the Report Water Management		
Product Innovation	Total addressable market and share of market for products that reduce energy, water, and/ or material impacts during usage and/or production	Location in the Report R&D and Innovation		

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ACHIEVEMENTS ON 2020 ROADMAP

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Roadmap 2020 Actions



Integrate Supplier Sustainability Assessment System



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2018: Implemented first assessment and reached our global suppliers with the highest trade volume.

2019-2020: Implemented a more comprehensive survey and reached 78% of global and 28% of our local suppliers on average.

Turkey: Completed recertification audits.

Indonesia: Completed in May 2017
Brazil: Completed in April 2018

What We Achieved by 2020

Thailand: Completed in July 2018 **Chattanooga USA:** Completed in May

2019



Obtain 14001: 2015 Environmental Management Standard Certification for all sites



Increased our score by two levels every year

2017: D; 2018: C-; 2019: B 2020: A-



Increase CDP Water Security score gradually

Increase CDP Climate Change score gradually



Increased our score by one level every year



2017: C; **2018:** B-; **2019:** B **2020:** A-



Complete GHG verifications for Scope 1 and Scope 2 for all sites



2018: Completed Turkey Scope 1 verification by a third party **2020:** Completed Scope 1 and 2 data verification of Turkey Ir

2020: Completed Scope 1 and 2 data verification of Turkey, Indonesia and Chattanooga sites.



Integrate sustainability topics in Employee Idea Platform



2017: Integrated all key issues in the system and started collecting thousands of employee feedback regarding sustainability topics.



Waste Reduction



In the first five years of the roadmap our waste management targets addressed environmental compliance.



Start Water Program at all sites. (General information on the water reduction projects planned to be initiated in 2021 are located under **Water Management** section.)



Considering the impacts of water usage in our operations and the expectations of our key stakeholders, we did not focus on this action until 2019.

With the new roadmap we prepared in 2019, we set long term water consumption reduction targets of all our global plants starting from 2020.

OUR SUSTAINABILITY TARGETS

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Related SDG	Explanation of Target	Indicator	Base Year	2020 Performance	2021 Target	2025 Target	Target Responsible
12 RESPONSIBLE CONSUMPTION AND PRODUCTION	Using renewable energy	Ratio of renewable energy used in total consumption (%)	2018	2.5% (IREC)*	5%	In progress	Chief Operation Officers (COOs)
AND PRODUCTION						2025 / 2030 / 2050 Target	
	Reducing emissions	Scope 1&2 emissions (CO ₂ e)	2018	17.97% reduction	2.5%	17.5% / 30% / 100%	COOs
Related SDG	Explanation of Target	Indicator	Base Year	2020 Performance	2021 Target	2030 Target	Target Responsible
12 RESPONSIBLE CONSUMPTION AND PRODUCTION	Reducing water withdrawal	Withdrawal per unit produced (m³)	2019	13.64% reduction	6% (Turkey) 2% (All sites except Turkey)	50%	COOs and Sustainability Leaders
CO	Reducing waste	Amount of total waste (tons)	2018	17% increase	6%	50%	COOs and Sustainability Leaders
Related SDG	Explanation of Target	Indicator	Base Year	2020 Performance	2021 Target	2025 Target	Target Responsible
	Avoiding accidents	Number of fatal injuries High-consequence injuries Recordable injuries	2019	Fatal injuries: 0 High-consequence injuries: 0 Recordable injuries: 11 (+2 contactors)	Zero accident	Zero accident	COOs and Sustainability Leaders
8 DECENT WORK AND ECONOMIC GROWTH	Increasing global suppliers' ratio on sustainability survey	Ratio of supplier participation (%)	2019	73%	100%	Maintain 100%	Supply Chain
EUNUMIC GROWTH	Reducing complaints on human rights violations	Number of complaints on human rights violations	2019	Zero complaint	Zero complaint	Zero complaint	Human Resources
	Increasing employee satisfaction	Employee satisfaction rate (%)	2018	68% (2018)	65% and over	65% and over	Human Resources
	Continuing employee development trainings	Sabancı of New Generation competencies	2019	Ratio of occupational and personal development trainings reached 62%.	Continue trainings to complete the competencies	Continuous development	Human Resources
5 GENDER EQUALITY	Increasing women employment (Office staff)	Ratio of women employees (%)	2019	34.7%	36.6%	45%	Human Resources
4 QUALITY EDUCATION	Increasing number of teachers attending ÖRAV training	Number of teachers trained annually	2019	14 teachers who reach 500 students "Leader Teacher in Learning" Training	250 Teachers (Duration: 10 week ends)	In progress	Corporate Com. and Sustainability

SDG 9: INDUSTRY, INNOVATION AND INFRASTRUCTURE





AWARDS and ACHIEVEMENTS

Kordsa received four winner awards in IDC Turkey Digital Transformation Awards

Talent Accelerator

Category Winner with RPA+JOJO Project

Digital Transformer

Category Winner with Line1 Data Analytics Project Winner with TCF Energy Consumption Data **Analytics Project**

Operating Model Master

Category Winner with Momentum Project



Second Place in Innovation Sources Award

Kordsa received 2nd runner up Award for the R&D works done in inovalig organized by TiM



We develop innovative, safer, more efficient and sustainable products for a more convenient life in Kordsa with our constantly growing team at our two R&D centers, 12 plants in four continents where we produce reinforcement technologies.

With our digital transformation investments, we carry out more effective processes and continue to create a difference in all the sectors we serve with our technologies.

We primarily see R&D, innovation and digital transformation as facilitators to our corporate targets within the scope of sustainable production and consumption targets, and we continue our investments and projects in this field.

EMPLOYEE FEEDBACK

I think Kordsa is a great company to work for, and while I may not know about each sustainability process or design, I do know about its ethics and integrity to humankind. I hope to continue working here until retirement.

2020 Employee Sustainability Survey



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Sustainability Faciliators at Kordsa



Sustainable Development Goal 9 encompasses three important aspects of sustainable development; infrastructure, industrialization and innovation. This SDG seeks to build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.

Infrastructure provides the basic physical systems and structures essential to the operation of a society or enterprise. Industrialization drives economic growth, creates job opportunities. Innovation advances the technological capabilities of industrial sectors and prompts the development of new skills. Inclusive and sustainable industrial development increases living standards for all people, and provides the technological solutions needed for socially and environmentally sound industrialization.

Therefore, at Kordsa, we see R&D, innovation, technology, and digitalization as facilitators of our sustainability targets especially on sustainable consumption and production.







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We continue our works at our R&D Centers to differentiate ourselves in our products and services, offer our customers more competitive and innovative products, achieve production efficiency on materials, processes and equipment, and establishing Kordsa as the market leader in composites while preserving our pole position in the tire market.





Facts & Figures on R&D and Innovation



R&D Centers

izmit: Tire and construction reinforcement, and flexible film and printable electronics technologies

istanbul: Composite technologies



Personnel (İzmit R&D Center)

Personnel

(Composite Technologies Center of Excellence)



78 Approved R&D Projects

(5.4% increase) (Ministry of Science, Industry and Technology)

> izmit: 64 İstanbul: 14



IISD 41.1 Million

Revenues by New Product Sales



62%

R&D Expenditure Ratio for **Environmentally** Friendly Products*

*Less weight, eco-friendly adhesive technology, lower CO., lower rolling resistance, chemical recycling, eco-design, recycling.



Patent Applications

228 Patents Granted

TI 99.6

Million

R&D Expenditures Including Capex and Opex



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KORDSA SUSTAINABILITY REPORT

Summary of Main R&D Activities of 2020

- We arranged workshops for new ideas.
- Updated our Project Management System.
- Gave Project Management and Intellectual Rights trainings.
- Expanded the scope of our R&D Center even further.
- Applied for nationally and internationally funded projects.

Open Innovation Collaborations

CoKoon: Eco friendly dipping technology project developed by Kordsa and Continental.

PolynSPIRE: Horizon 2020 innovative technology development project for efficient and sustainable plastic recycling.

TRB Collaboration: Joint work carried out with TRB Lightweight Structures to use Kordsa's carbon fiber fabric in developing batteries for mass production electric vehicles.

COMACH: Project to develop clean, high precision and flawless composite cutting robot supported by EUREKA.

Kordsa -Sabancı University Collaborations

DiCoMi Project: System, software and material development project to produce composite materials in 3D printer. The project includes 15 project partners from 11 countries under Horizon 2020 project scheme.

TÜBİTAK-BMBF 2+2 Turkish-German Project: Developing prepreg for damaged composite parts in aviation industry waiting to be repaired by utilizing nanotechnology practices. The "Automated Repair Patch Production" is an international project supported by TÜBİTAK and BMBFand involves Turkish and German partners.





Strategic University Collaborations

We protect all our projects with confidentiality agreements; and we carefully handle ethical aspects and intellectual property issues.

Tire and Construction Reinforcement R&D Center	Composites R&D Center
Aachen Institute of Technology	RWTH Aachen University
Boğaziçi University	Boğaziçi University
Çankaya University	İstanbul Technical University
Fatih Sultan Mehmet University	Sabancı University
İstanbul Technical University	Kocaeli University
Kocaeli University	
METU Main Laboratory	
Purdue University	
Rotterdam University	
Sabancı University	
Sakarya University	
Süleyman Demirel University	
University of Texas	
Tokyo Institute of Technology	
Uludağ University	
Yıldız Technical University	
York University	

OUR SUSTAINABLE PRODUCTS

Kordsa product development processes vary between 5 to 10 years due to the mandatory security tests in the sectors where Kordsa's customers operate. We continue our works in developing environmentally friendly new products and technologies free of hazardous chemicals that increase energy efficiency and reduce carbon emissions.

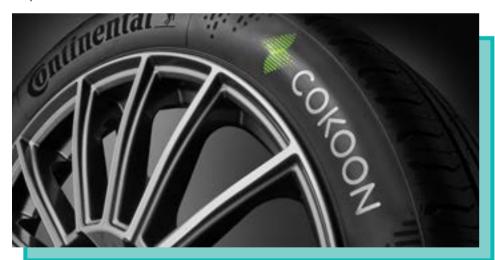
Brands and Products of Our R&D Centers

Before 2015: Twixtra, Monolyx, Capmax, Hartech and Kratos.

2016: Registered the industrial design of green cord fabric.

2017: Established a concrete laboratory for Construction Reinforcement Business Unit. Succeeded in producing a resinimpregnated fabric (prepreg) by weaving carbon fiber fabric in Composite Technologies Business Unit.

During and after 2018: Began to name the products in products codes that we developed and registered for different needs and expectations of our customers.



CUSTOMER FEEDBACK

We recommend Kordsa for its outstanding achievement in Ecovadis assessment and game changing innovation efforts on the study for sustainable (recycled/renewable) materials.

Bridgestone EMIA Procurement Department 2020 Kordsa Customer Sustainability Survey

TIRE REINFORCEMENT PRODUCTS



Capmax® the reinforcement product we developed at Kordsa facilities, is a top belt strip that can be directly applied at the tire building machine without the need for rubber coating. Capmax® decreases the production costs and increases efficiency, by eliminating many stages in tire production such as calendaring and cutting. By reducing rolling resistance which contributes to the reduction in fuel consumption, Capmax[®] also creates cost advantage for the end users. The potential market for Capmax® is the global light vehicle tires market using top belt strip.



Cord structures formed by twisting two or more different material types together are called hybrid cords. Kordsa launched Twixtra® that can be treated as the world's lightest hybrid cord product, in 2013. The manufacturers' choice in high performance tires is the Aramid-Nylon 6.6 hybrid cord structure. The product is very much lighter compared to its predecessor and it allows the tire to be produced with less raw materials. Lighter tires lead to less fuel consumption.

Sustainability impacts created by these products:

Economic Gains:

- New style ready to use product
- Efficient and faster production process
- Improved total cost of use

Social Gains:

- More safety for all rubber goods
- •Comfortable driving at high speed

Environmental Gains:

- Lighter products thanks to less material usage
- Less pollution because of more durability

Corporate Gains:

- High value-added product in portfolio
- Strong knowledge and experience
- Reputation



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CoKoon Dipping Technology

Kordsa developed CoKoon by joining R&D forces with Continental, a technology which does not contain resorcinol and formaldehyde in bonding textile reinforcing materials to the surrounding rubber matrix, and thus changed the 100-year rubber-based formula with an eco-friendlier one, after a 10-year R&D work. CoKoon is among the most crucial strategic collaborations in the tire sector.

Kordsa provides the CoKoon technology which does not require additional cost and can be applied without changing process equipment to everyone who wants to take part in a free of charge licensing pool established together with Continental and encourages the development of this technology. Hence, CoKoon is positioned to be the new industry standard which offers innovation in both product and business model.

Economic Gains: In rubber industry where, sustainable products are more expensive than traditional products, a sustainable solution is provided for rubbertextile dipping systems without an additional cost.

Social Gains: This resorcinol-and-formaldehyde-free formula will be the new industry standard, and the developed technology will be licensed to all companies across the sector free of charge as an outcome of the open-innovation approach.

Environmental Gains: In the new technology, more environmentally friendly chemicals that are compatible with REACH regulations will be used.

Corporate Gains: We have the pride in leading an innovation that will transform the sector we operate in.

2020 Developments

- Four new patent applications were made from Kordsa-Continental collaboration.
- Continental manufactured 200,000 tires using COKOON technology.
- 70+ tire and fabric manufacturers got in touch with us to receive more information on COKOON project, samples were shared with around 30 companies.
- Free licensing pool was made active in April 2020, and four more companies joined the pool besides Kordsa and Continental.

CONSTRUCTION REINFORCEMENT PRODUCTS



KraTos Macro and Micro

KraTos, an innovative synthetic fiber reinforcement is used in concrete reinforcement implementations of infrastructure and superstructure projects. It makes a difference in the construction market by being preferred in prestigious projects with its high performance since 2014.

Economic Gains: Provides labor cost advantages for our applicant customers and contributes to the concrete's durability and longer life thanks to its polymer structure. Offers easy storability and advantageous logistic costs.

Environmental Gains: Provides less energy consumption and smaller carbon footprint in its production compared to steel components. Has resistance increasing properties for concrete against freezing and thawing.

Social Gains: Provides high labor efficiency with its ease of use. Thanks to its special fiber structure, it mixes evenly into concrete which offers efficient fracture control across the surface, and it has increased load carrying capacity properties.

Corporate Gains: Thanks to its non-conductive structure, it is used in special projects, in sections where electromagnetic systems are located and where continuous efficiency is required. It is also preferred because it provides long-term safety and high strength. Our KraTos products were granted Made in Turkey certificate in 2020. We have not only the first domestic fiberized product, but also the domestic product certificate. We foresee the great advantage it will bring especially in government tenders.

CUSTOMER FEEDBACK

We have been observing Kordsa's contributions to R&D and construction technologies with attention and excitement!

Istanbul Technical University Civil Engineering Department 2020 Kordsa Sustainability Customer Survey



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Project Name	Construction Reinforcement Products (Kratos RM and Kratos PX)
Location and Date	Kordsa İzmit R&D / 2020
Objectives and Actions	Main goal of this project is to create new innovative products for industry in application fields such as construction and mining. Kratos RM reduces concrete rebound in mining and tunnel applications, Kratos PX greatly reduces plaster cracking problems in pool applications caused by adverse environmental effects, poor labor quality or other components.
Results	We brought these special polymers into various industries as new and innovative products. In brief, we created an added value while keeping sustainability in the forefront in this project by developing material, application field and know-how through laboratory and field tests carried out in cooperation with customer. Kratos RM, minimizes concrete rebound up to three times, thereby creating material savings for our customers. Kratos RX provides effective control against cracks in pool applications. This project is directly in harmony with the targets of the Construction Unit thanks to its pioneering and innovative role in its segment, boosting the sales volumes and expanding product range.
Plans for Future	Both products have been commercialized. We placed two separate patent applications for both products to protect their intellectual properties.



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CUSTOMER FEEDBACK

We prefer Kordsa for their openness to new developments in their products with their sustainable point of view and the advantage of having the ability to build a collaborative medium with them.

Tire Reinforcement Customer

2020 Kordsa Sustainability Customer Survey







COMPOSITE PRODUCTS

E-Glass Prepreg

(Composite Leaf Springs for Heavy Commercial Vehicles)

As a company that values strategic industrial partnerships, we create solutions for carbon emission reduction for various industries at Kordsa. We signed a contract with Ford Otosan in 2015 to reduce the weight of the steel leaf spring systems used in heavy commercial vehicles by 75%.

In this project under TÜBİTAK 1501 subsidy program, we have been developing a resin and glass-fiber reinforced prepreg material since 2019 to be used in composite leaf springs that will replace the conventional steel leaf springs that are currently in use in transit mixer trucks.

Economic Gains: The commercialization process of the product will begin in 2021, which will create a significant saving opportunity for the vehicle owner.

Environmental Gains: Due to less fuel consumption, natural resources will be protected, and less emission will be released.

Social Gains: It will help reduce air pollution.

Corporate Gains: Another high value-added product will be available in the portfolio.

Special Fabric for Orion Space Capsule

Kordsa is signing an especially important collaboration for the space industry. Kordsa products are reinforcing the composite structures in orange balloons used in the Orion capsule that will be the spacecraft to take the astronauts to the farthest distance to date and bring them back.

One of Kordsa's subsidiaries in the US, Fabric Development started to weave this fabric under Style 2150 name first in 2011, which will now be used in the Orion capsule. Kordsa strengthened its vision extending into the space with this collaboration.

The Kordsa-reinforced orange fabric in the Orion capsule landing balls inflates with

capsule's contact with water and offers high visibility for rescue mission with its orange color while helping capsule stay in the upright position.

THIN FILMS AND FLEXIBLE ELECTRONICS

Wearable Healthcare Electronics

New technologies and materials are introduced to make life better and easier in our continuously changing world. Products based on thin films and flexible printed electronics technology are expected to make their way into our lives soon. This new technology, having applications like foldable displays to wearable biosensors, photovoltaic solar cells to flexible RFID's will be more in our daily lives in the near future and will add extra ease and comfort to our daily routines. We will see many innovative thin films and flexible electronics technology-based products in automotive industry, consumer and industrial electronics, and healthcare industry in near future.

As a company with an open innovation approach, Kordsa does major collaborations and now seeks new opportunities in thin film and flexible electronics technology. The Company puts focus on these materials and technology of the future and has launched "Thin Films and Flexible Electronics" R&D platform in partnership with Sabanci University and is engaged with six partners on a new project named "Nanosis-1004" on wearable healthcare electronics for monitoring health data via nano technological sensors. The project application for funding by the leading Turkish research body, TUBITAK, was completed by Kordsa and SUNUM (Sabanci University Nanotechnology Research and Application Center.

For more details on Kordsa's new R&D Platform, you can reach Global Technology Director Devrim Özaydın's article on "Thin Films and Flexible Electronics" **here.**



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TECHNOLOGY AND DIGITALISATION



We continue our investments in many innovative technologic applications that we put in operation across our facilities such as robotic process automation, image processing, mobile technologies, and machine learning.

As Kordsa which transformed the concepts of "Digital Transformation and Industry 4.0" into the corporate culture, we continue our efforts to digitalize the new products, processes and methods we are developing globally for all countries we operate in.

Having transformed all countries into a standard production reporting structure by collecting data from production on a global scale since 2012, we have reached to a point at Kordsa today where we get to establish such systems that evaluate and integrate higher level new generation smart technologies with an analytic intelligence.

Following the establishment of the Digital Transformation Committee In 2018 with managers of Production, Supply Chain and Planning, Quality, Maintenance and Information Systems and the works carried out using measurement and evaluation methodology, many processes were reviewed in detail by specialist consultants coming from different countries. The development areas were determined according to corporate priorities, and a three-year digital transformation roadmap was prepared for the period 2018-2021.

We commenced projects to ensure fast end-to-end traceability by moving into a big data platform where production data is centralized; to prevent quality defects promptly by advanced sensory systems and image processing technologies; to enable more effective and flexible planning management via optimizations and smart systems in supply chain and planning and to transform into a structure that will facilitate daily life and allow the parts entire corporate structure to communicate with each other.

Industry 4.0 is one of the strategic targets at Kordsa and covers three main topics.

- Advanced Data Analytics
- Robotics and Smart Machines
- Digital Practices and Infrastructure

Advanced Data Analytics Trainings

We began to develop advanced data analytics projects with our 17 staff who participated Sabanci University Advance Data Analytics Program and received Data Scientist, Data Engineer and Data Translator titles.

With the projects started and completed in 2020, we achieved a big success by bringing in a profit of nearly two million dollars. We prepared our plans to include Kordsa analytics team in our new projects and extend the existing projects on to the manufacturing fields abroad in 2021.

Robotics and Smart Machines

In 2020, we at Kordsa continued to invest into fields of robotic process automation, image processing, mobile technologies, machine learning and IoT. Prioritizing the partnerships with start-up

companies, projects executed within TÜSİAD SD2 program and the RPA projects where we move forward with Sabancı Dx, our company will continue to reach quality, work safety and efficiency targets in digital automation with these projects.

Digital Applications and Infrastructure

Kordsa has completed the building of the new digital application infrastructure that will enable more effective and flexible process managements and make daily work life easier. We are keeping the digital product life cycle under control in Kordsa with our skilled managers who prioritize solutions and products that will create benefits for our clients by adapting newly developing technologies into this infrastructure.

Cyber Security

At Kordsa, we regard cyber security scheme as part of digital transformation and hold practices such as regular vulnerability scans, fishing tests and disaster recovery solutions.

All Kordsa plants around the world have the necessary systems installed to monitor global threats and take preventive timely action by making use of Security Operations Center practices.



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SDG 12: RESPONSIBLE CONSUMPTION AND PRODUCTION







One of the seven values underlying Kordsa's growth strategy is to 'protect the environment'. We strive to sustain this value with our 'make better with less resource' approach since the day we were established, and we reinforce life while increasing our economic competitive power.

We invest in clean technologies to ensure efficient use of energy, reuse our materials, reduce emissions and other wastes along with reduction in water consumption; and in continuous improvement projects together with our R&D and production teams to increase recycled material usage ratio and to use bio-based materials. In 2020, our total environmental investment and expenditures amount to more than one million dollars.

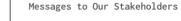
AWARDS and ACHIEVEMENTS

Quality Circles Award

Kordsa was presented the GRAND AWARD at the 20th Quality Circles Sharing Conference by Turkey Quality Association (KALDER).







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KURDSA SUSTAINABILITY REPORT

EMPLOYEE FEEDBACK

Kordsa is an excellent place to work but we can move forward on the issue of sustainability, run larger campaigns on the environmental issues and reduce our impacts on the environment.

2020 Employee Sustainability Survey



RAW AND OTHER MATERIALS MANAGEMENT



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KORDSA SUSTAINABILITY REPORT 2020

INTERNAL STAKEHOLDER VIEW

%68 of our employees who responded to the sustainability assessment survey think that...

Kordsa's practices for efficient use of raw materials are adequate.

RAW and OTHER MATERIALS MANAGEMENT

Selection and efficient use of raw materials rank among the top indispensable elements of sustaining our production. Raw and other materials expenditures constitute about 61% of our total procurement.

The policy that we base our materials management is our Environment Policy. Our targets vary depending on different production processes of product groups. We implement improvement projects to reuse materials and to decrease the consumption of raw materials we use in the production.

Performance in 2020

Besides our ongoing projects on the reuse and reduction of the use of materials and especially the chemicals, this year we carried out new improvement works such as reduction of chemical bath losses at dipping process and regaining of acetone. The details of these works are available in the following pages.

We manage raw and other materials topic according to our Environmental Policy.

Details of our environmental management approach (Implementations and Control) is **here.**

The details of our raw and other materials management approach (Implementations and Control) are **here.**

Project to Reuse Materials

In order to increase the reuse of yarn tubes; we started this project in Kordsa Turkey site in 2014. Since then, we contribute to the corporate budget and natural resource savings increasingly every year.

We added carton separators, steel shells and wooden pallets to this project alongside the tubes after having extended it gradually to our other sites. We bring the steel shells that go to our customers along with our products back to our plant after delivery and we reuse them. We maintain material efficiency by reusing the tubes, paper separators and wooden pallets that we use to organize the products at the plants.

We utilize these materials until they reach their end of life in the facility, and then sell them as scrap to be used in various other sectors, thereby contributing to circular economy.

In 2020, we saved 2.7 million dollars through reuse of 2.4 million pieces of materials in our facilities. We raised the average reuse rate across all our plants to 28% from 14% in 2019. In the upcoming years we will continue to deploy this project to rest of our sites.

RAW AND OTHER MATERIALS MANAGEMENT

	Materials	Plants	2019	2020
		Turkey - İzmit	35%	50%
~~~		USA -Laurel Hill	55%	86%
(6)	Steel Shells	Indonesia	31%	41%
		Thailand	86%	84%
		Brazil	86%	93%
		Indonesia	8%	28%
	Tubes	USA - Chattanooga	8%	14%
		Brazil	62%	84%
		Turkey - İzmit	N/A	16%
	Carton Separators	Indonesia	8%	13%
		USA - Chattanooga	38%	38%
		Turkey - İzmit	N/A	33%
	Wooden Pallets	Indonesia	N/A	19%
<u> </u>	<u> </u>	USA - Chattanooga	72%	73%

# Reduce Use of Materials

As a result of monitoring our material usage performance and our efficiency efforts, we achieved significant improvements in the use of chemicals and flake rates at our plants between 2014-2017. Despite capacity optimizations in USA, Brazil and Indonesia and R&D programs implemented in Turkey, no significant increase in our chemical usage was detected. In many of our sites, we were able to decrease chemical usage.

The table below shows the materials and chemicals usage data of our plants and the reduction performances in 2020 compared to the base year 2017 where the relevant data of that year is considered as one unit.

KORDSA MATERIALS MANAGEMENT					
Materials	Plants	2018	2019	2020	
	Dipping NY - Turkey	1.16	0.98	0.92	
	Dipping PE - Turkey	1.11	1.02	0.82	
	Dipping - USA / Laurel Hill	1.03	1.04	0.93	
TCF Chemical Ratio	Dipping - Brazil	1,04	1.01	0.81	
	Dipping TCF1 - Indonesia	1.01	0.99	0.97	
	Dipping TCF2 - Indonesia	0.96	0.94	0.93	
	Dipping - Thailand	0.98	1.04	0.97	
Materials	Plants	2018	2019	2020	
	NY Yarn Line 1 - Turkey	1.03	0.99	0.90	
	NY Yarn Line 2 - Turkey	0.99	1.00	1.04	
	PE Yarn - Turkey	1.01	1.02	0.98	
NY Salt / Flake Ratio	NY Yarn - USA / Chattanooga	1.00	0.98	0.58	
	Yarn - Brazil	1.77	1.79	0.98	
	NY Yarn - Indonesia	1.01	1.01	1.00	
	PE Yarn - Indonesia	0.95	1.00	0.96	
Materials	Plants	2018	2019	2020	
SEC Chemical Ratio	SEC - Turkey	1.21	1.42	0.66	
SEC CHEMICAL RACIO	SEC - Brazil	1.00	0.98	0.92	



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# RAW AND OTHER MATERIALS MANAGEMENT

Project Name	Reduction of Chemical Losses at Dipping Process Project
Location and Date	Kordsa İzmit Facilities / 2020
	Our project goal is to reduce the ratio of bath chemicals turning into waste, which is used in the cord fabric production treatment and has the highest cost in the process.
Objectives and Actions	Firstly, we prevented the distortions in the baths by taking RF maturing process. We then accumulated the excess bath and fed it back to the bath preparation unit for a reuse, which prevented it from becoming waste.
	We prevented the overflow losses by increasing the bath feeding frequency while reducing per-roll feeding amount from 60 kg down to 10 kg.
Results	Corporate: In the first step of our three-step project we achieved a 5.56% improvement by reducing input/output ratio from an average of 1.26 down to 1.18.  Economic: We saved 667 thousand dollars/kg annually.
Plans for Future	As the second step of the project, we had a prototype built for the online bath consumption tracking. The trials are still going on. In the third step we will attempt to reduce our losses to minimum by operating in optimum process conditions thanks to online bath consumption tracking and data analytics.

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	Location and Date	Kordsa Thailand / 2019-2020
	Aim and Actions	Our aim was to reduce creel rest scrap by 30%.
	Results	With this project we initiated a method to reduce creel rest waste from approximately 0.62% in 2017 and 0.66% in 2018 to 0.35% in 2020.

Recovery of Acetone and Other Solvents Project

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**Project Name** 

Location and Date	Kordsa CTCE Waste Area / 2020-2021		
Objectives and	Acetone is a chemical highly consumed in the cleaning processes in CTCE (Composite Technology Center of Excellence) production operations. It not only has a high financial cost, but also has an exceedingly high environmental impact. Besides, its destruction as a waste also incurs extra costs.		
Actions	With the Recovery of Acetone and Other Solvents Project, we aim to both reduce the amount of our chemical waste and have savings on the costs.		
Results  Environmental: Thanks to an 88% of material recovery ratio, our waste has been reduced by the sam amount.  Economical: We reduced our material and waste disposal costs dramatically.			
Plans for Future	We will plan the capacity increase of the system and its deployment to other sites.		



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# **ENERGY MANAGEMENT**



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KORDSA SUSTAINABILITY REPORT 2020

# 56

# INTERNAL STAKEHOLDER VIEW

**%66** of our employees who responded to the sustainability assessment survey think that...

"Kordsa's investments and projects to assure energy efficiency are adequate."

# **ENERGY MANAGEMENT**

Our goals of energy efficiency and using less energy per unit product we produce has a strategic importance for us. At Kordsa, electricity, natural gas and steam are the main types of energy we use as input for production.

Energy Committee, which consist of white-collar employees and Maintenance and Auxiliary Facilities Group Manager as energy representative, measures and monitors energy use based on ISO 50001 Energy Management System, prepares energy reports and manages energy reduction projects.

We monitor our energy consumption trends by plants and manufacturing processes with 2013 data as the baseline. Energy consumption is not directly affected by the increase or decrease in the amount of production. The energy consumption can remain constant in either case. On the other hand, product mix (content) in production has direct effect on energy consumption. We are tracking the parameters such as Dtex,

speed, scrap and unit rates on a monthly basis, and go over the changes in the BPR meetings with the participation of all related managers.

### Performance in 2020

Following the significant improvements between 2011-2014 period, we reduced natural gas consumption in all our facilities from 2014 to 2017 by 43-51% thanks to our efficiency projects.

In addition to our energy efficiency efforts, with the effect of pandemic our electricity consumption decreased by 15% and our natural gas consumption by 13%.

We manage energy topic under Environmental Policy. Details of our environmental management approach (Implementations and Control) is **here.** 

Details of Energy Management Approach (Implementations and Control) are **here.** 

2019

2020

Diesel Oil Consumption (liter)

314,956.57

254,744.83

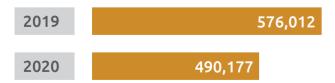
Energy consumption data is here.

62.4

Natural Gas Consumption (Million Sm³)

54.3

# **Electricity Consumption (MWh)**



# LPG Consumption (kg)

2019

2020



# **Gasoline Consumption (liter)**

109,869.15

2019 125,388.75

2020

# **ENERGY MANAGEMENT**

**Project Name** 



Location and Date Kordsa İzmit Facilities / 2020  With this project, we simed to entimize energy usage through energy consumption modeling in twicting	
With this project, we simed to entimize energy usage through energy consumption modeling in twisting	
With this project, we aimed to optimize energy usage through energy consumption modeling in twisting machinery and treatment units.  Objectives and Actions  We modeled the energy consumption of a specified fabric production process through statistics and mach learning. We determined the possible steps in machinery/operation/planning by putting the model and the data collected from the machinery together. Carried out an action and feasibility study for the reduction or energy spent off-production by 30%.	
Results  Economic: We achieved 8.6 million kWh and 600 thousand dollars per year savings.  Environmental: We improved twisting machinery energy consumption by 20%. During the preparation phonographs of the project, we saved energy by 30% at the finishing units.	se
Plans for Future  We will finalize the actions the feasibility study of which were done and compare their results with the pas performances. We will carry out works toward making the operational changes permanent. We will build a library for the data that will be required in this and upcoming projects.	

Smart Lighting system and LED Conversion

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Location and Date	Kordsa İzmit Facilities / 2020
Objectives and Actions	With this project, we aimed to have an OHS-friendly emergency lighting and direction system in K1 area, which would also save energy. We also wanted to have a complete system where the lighting system talked with the machinery, and warned the personnel about process stoppages, hence increased operational efficiency.
	We used sensor-fitted smart LED lighting modules which automatically dimmed the light and energy consumption down to 10% when there was no motion in the area. We installed an OHS-friendly maintenance-free system which remotely monitors the operational health of the units and charge status of the batteries thanks to the integrated smart emergency lighting system.
	We also converted the pedestrian area lightings in K2-K3-K4 areas to LED.
Results	Economic: We achieved a saving of nearly 17 thousand dollars in K1 area, and 11,500 dollars in the total of remaining areas. The operational life of 200 thousand hours and 25 years on these long-life LED lighting units will also reduce our long-term costs.  Social: We achieved labor efficiency since self-test emergency lighting and remote monitoring facility does not require periodic control.  Environmental: We achieved an energy saving of 200 thousand kWh in K1 area, and 135 thousand kWh in the total of remaining areas.  Corporate: We increased operational efficiency thanks to the stoppage warning system.
Plans for Future	We are planning to deploy this scheme to other areas.

# **ENERGY MANAGEMENT**

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KORDSA SUSTAINABILITY REPORT

# **Kordsa Energy Saving Projects of 2020**

In Indonesia, our production teams redesigned exhaust oven to decrease heat loss from treating oven to drying oven. They also worked on a project to optimize motor supply pump chiller.

In Thailand, our teams ran a project to improve water cooling of twisting process where they also saved equipment, spare parts and hence, 145,600 dollars/year.

The relevant energy and economic savings of these projects are listed below.



Sites	Energy Type	Investment (USD)	Reduction	Saving (USD/Year)
Indonesia	Natural Gas	25,000	255 m³/ton to 230 m³/ton	90,000
Indonesia	Electricity	-	317,307 kWh	25,000
Thailand	Electricity	78,500	1.2 million kWh	110,000
Brazil	Electricity	515,948	7.84 million kwh	276,487

# **EMISSIONS MANAGEMENT**

# INTERNAL STAKEHOLDER VIEW

**%61** of our employees who responded to the sustainability assessment survey think that...

Kordsa's projects and preventive measures to monitor and reduce emissions are adequate.

### **EMISSIONS MANAGEMENT**

Reduction of emissions including GHGs and combatting climate change are among Kordsa's priorities. Our primary goal is to act in compliance with local regulations on greenhouse gas emissions in all countries we operate. In line with our net zero carbon by 2050 target, we will increase our monitoring, measuring, and reducing practices in emissions management in the upcoming period.

# The Steps We Took in Combatting Climate Change

**In 2014,** we started calculating our greenhouse gas emissions in Kordsa Turkey, approved by the Ministry of Environment in line with the GHG regulations.

**In 2015,** we commenced Scope 1 direct emission calculations in our Indonesia and Thailand facilities.

In 2016, we started Carbon Disclosure Project (CDP) Climate Change reporting.

In 2017, we completed Scope 1 direct emission calculations in all our facilities.

In 2018, we began Scope 2 emission calculations.

**In 2019,** we completed Scope 1 and Scope 2 emission calculations for 2018-2019 in all our facilities. Three of our facilities, in Turkey, USA-Chattanooga, and Indonesia respectively, were subjected to external audit for our Scope 1 and Scope 2 emissions.

**In 2020,** raising our CDP rating to A- placed us among Turkey's Climate Leaders. We reduced our Scope 1 and Scope 2 total emissions by 14% from the year 2019. Scope 1, 2 and 3 emissions data of our three facilities in Turkey, USA-Chattanooga and Indonesia were subjected to external audit.

Axiom Materials Inc., Kordsa's composite manufacturing subsidiary in Santa Ana California, was certified as the world's first carbon neutral prepreg manufacturer in 2020.

We manage emissions topic under Environmental Policy.

Details of our environmental management approach (Implementations and Control) is **here.** 

Details of our emissions management approach (Implementations and Control) is here.

Emissions data is here.

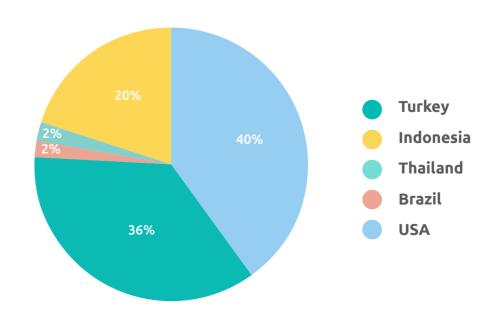
# 2020 CDP Climate Change Leader



Our CDP score

Kordsa CDP Climate Change Report is here.

# Total GHG Emissions Regional Split



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# **EMISSIONS MANAGEMENT**

GHG EMISSIONS (tCO ₂ e)	2018	2019	2020
Scope 1	128,175.84	128,875.99	113,544.12
Scope 2	307,105.93	294,806.85	249,155.85
Scope 3	n.a.	n.a.	1,153,662.95
TOTAL	435,281.77	423,682.84	1,516,362.92

Scope 1 data includes: Natural gas, generators & pumps, cooling gases, fire extinguishers, company vehicles. Scope 2 data includes: Electricity

Scope 3 GHG Emissions (tCO ₂ e)	2020
Purchased Good and Services	1,049,218.26
Fuel and Energy Related Activities (Not reported under Scope1-2)	63,552.53
Upstream Transportation and Distribution	32,713.51
Others	8,178.65
Total	1,153,662.95

Project Name	Energy Efficiency and Emission Reduction Project
Leader /Application Location	Brazil
<b>Objective</b>	The project that was initiated for energy efficiency and carbon reduction goal in our Brazil site was designed to make cooling, lighting and air conditioning systems smarter, optimized and more efficient. In this project we collaborated with Coelba, the electricity suppliers of our Brazil site.
Targeted Results and Gains	We achieved 7,845 MWh electricity a year saving which is 13% of our Brazil site's annual electricity consumption and also managed to reduce 918 $tCO_2$ e of emissions.



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# **WASTE MANAGEMENT**

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KORDSA SUSTAINABILITY REPORT

# INTERNAL STAKEHOLDER VIEW

**%67** of our employees who responded to the sustainability assessment survey think that...

Kordsa's practices to manage waste and wastewater to prevent environmental pollution are adequate.

### **WASTE MANAGEMENT**

In Kordsa sites, disposal, recycle and reuse of production wastes and wastewater as specified by law are among our regular activities. We dispose 100% of the wastes generated in our facilities by recycling, recovery, landfill and incineration in accordance with national regulations.

### 2020 Performance

In 2020, we decreased the amount of hazardous waste by approximately 11% compared to baseline 2018. We achieved some of our waste reduction by reusing our product wastes in the production.

In the meantime, our non-hazardous waste increased by 26.5% compared to 2018 and this increase reflected on the total waste amount as a 17% increase.

In this reporting period, by continuing to reuse some of the materials that would have been waste, we achieved to use our corporate resources efficiently and prevented environmental pollution.

As Kordsa, we are targeting to reduce our total waste ratio by 50% in comparison to our 2018 levels by 2030.

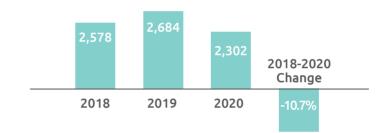
We manage waste topic under Environmental Policy.

Details of our environmental management approach (Implementations and Control) is here.

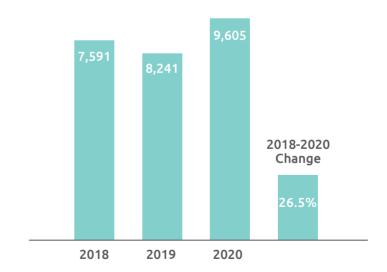
Details of our waste management approach (Implementations and Control) is here.

Our waste data according to disposal methods are **here**.

# **Hazardous Waste Management Performance**



# Non-Hazardous Waste Management Performance



2019 Data includes: Turkey - İzmit, Turkey - İstanbul (CTCE), Indonesia, Thailand, Brazil, USA - Chattanooga, USA - Laurel Hill 2020 Data includes: All 11 sites CTCE: Composite Technologies Center of Excellence

# **WASTE MANAGEMENT**

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# **Kordsa's Contribution to Circular Economy**

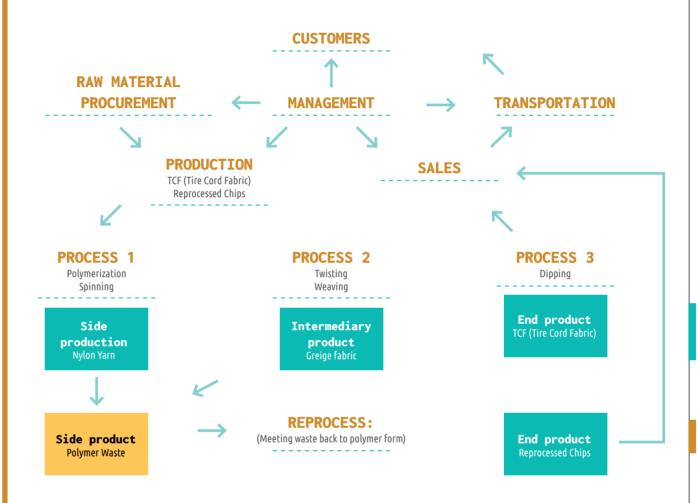
Since 2014, we turn the by-products of Nylon 6.6 yarn production facilities into pellet form at Kordsa Turkey and turn them into a raw material for engineering plastics industry. Those plastic raw materials provide zero-emission raw material input in various sectors and are turned into a variety of products in industries such as automotive and white appliances, thereby regaining them into the economy.

### Results and Gains

**Economic:** We turned Nylon 6.6 yarn by-product into a high value-added product. Our revenue gains from the sales of the products we turned into pellet form reached over 20 million dollars to date.

Most of these products are being used by the manufacturers in Turkey. Since the local engineering plastics manufacturers can obtain these materials locally, there has been a drop in Nylon 6.6 import, which resulted in manufacturers' reduction of costs and increase in profitability. We contributed to our country's economy by being instrumental in this new chain.

**Environmental:** Until 2018, the by-product recycling was available only in our Turkey site. Since then, we included our other facilities in the process, and gained about three thousand tons of polymer waste to the circular economy on a global scale.





# Global Strategic Cooperation for Plastic Recycling

Kordsa became a part of a new project named PolynSPIRE:
Demonstration of Innovative Technologies Towards A
More Efficient and Sustainable Plastic Recycling, under the
European Union's "Horizon 2020" R&D and innovation program
along with twenty-two partners. The project is initiated to
strengthen research and technology-development capabilities
in Europe while encouraging university-industry collaboration.

In the 48-month period of the PolynSPIRE project, it is expected that three innovations covering the TRL7 level are initiated, 60 kilotons of plastic waste is recycled, 300 kilotons equivalent CO₂ emissions are reduced, and 70 kilotons oil equivalent fossil resources are saved. Targeted impacts in 20 years are treating annually 4.5 million tons of residue, reducing 45 million tons of CO₂ emissions per year and recovering 10 million tons of oil equivalent of fossil fuel per year.

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# WATER MANAGEMENT



# INTERNAL STAKEHOLDER VIEW

**%66** of our employees who responded to the sustainability assessment survey think that...

Kordsa's practices to manage and efficiently use water resources are adequate.

### **WATER MANAGEMENT**

Water use is extremely important for the manufacturing processes at Kordsa plants and auxiliary operations. Water quality, accessibility and preservation of usable water resources are critical for the sustainability of our production and cost control.

In all our operations, we treat all the water we use at water treatment plants before discharging it to river or any local government piping mandated by local authorities. Our investments ensure that our water treatment capacity will meet the demand of future expansions. At all plants and offices, we put efforts to use water more efficiently, we encourage industrial reuse of treated water.

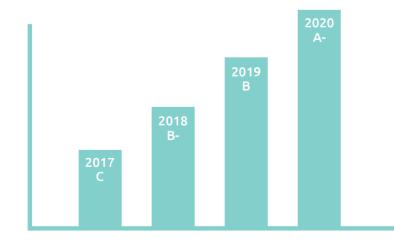
# 2020 Performance

In 2019, we recycled 184,000 m3 of water in Turkey and Indonesia sites. We reduced water withdrawal per unit produced by 13.6% compared to 2019 baseline.

Details of our water management approach (Implementations and Control) is **here.** 

Our Water Policy is **here.** 

# 2020 CDP Water Program Leader





Kordsa CDP 2020 Water Security Report is located here.

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# WATER MANAGEMENT

WATER WITHDRAWALS	2018 (m³)	2019 (m³)	2020 (m³)	2018-2020 (%)
Fresh Surface Water	2,556,608.39	3,166,771.64	2,035,366.39	-20.4%
Groundwater-Renewable	544,604.00	658,350.00	633,601.00	16.3%
Third Party Sources	381.446,25	260,599.75	231,408.91	-39.3%
TOTAL WITHDRAWALS	3,482,658.64	4,085,721.39	2,900,376.30	-16.7%

WATER DISCHARGES	2018 (m³)	2019 (m³)	2020 (m³)	2018-2020 (%)
Fresh Surface Water	782,221.00	1,012,249.63	779,633.93	-0.3%
Third-Party Destinations	1,248,849.78	1,610,231.49	1,229,387.81	-1.6%
TOTAL DISCHARGES	2,031,070.78	2,622,481.12	2,009,021.74	

	2018 (m³)	2019 (m³)	2020 (m³)	2018-2020 (%)
TOTAL CONSUMPTION	1,451,587.86	1,463,240.28	891,354.56	-38.6%

	2018 (m³)	2019 (m³)	2020 (m³)	2018-2020 (%)
RECYCLED WATER (m³)	189,437.00	181,671.00	184,101.00	-2.8%

2018 data includes all plants except the four new composite sites. 2019-2020 data includes all plants.

# Kordsa Water Projects Planned for 2021

In order to realize Kordsa's 2030 target to reduce water consumption by 50%, Kordsa sustainability teams worked on improvement opportunities and suggested various projects to reduce water withdrawal at Kordsa sites.

The projects range from flow meter installation to reverse osmosis system integration and from recycling of Ny yarn biological treatment wastewater to collecting rainwater to be used as make-up water.

The ELT approved projects and targeted reductions are given in the following table.

S:+aa	Number of	Targeted	
Sites	Projects	Reduction	
Turkey	3	44,000 m³ / month	
Indonesia	2	40 m³ / day	
Thailand	4	175 m³ / month	
USA - Chattanooga	3	Over 170,000 m³ / year	
Brazil	3	12,000 m³/ year	



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# SDG 8: DECENT WORK AND ECONOMIC GROWTH





# **AWARDS and ACHIEVEMENTS**

# **Ethics Turkey Award**

Kordsa became one of the 24 companies that have been awarded by the Ethic Values Center Association (EDMER) in Turkey's most ethical companies evaluation for their ethic practices in compliance with international standards.

# The Most Amazing Place to Work

Kordsa's manufacturing facilities in Brazil received "The Most Amazing Place to Work" from The Business Institute in the medium-sized companies' category.

# our subcontractors, a healthy and safe work environment that supports their necessary to maintain their long-term



# **EMPLOYEE FEEDBACK**

employment.

Kordsa always does continuous improvement not only for the production process but also for the human beings too. So, it will make a good harmony to achieve better targets.

2020 Employee Sustainability Survey

As Kordsa, we continued to offer

value to our stakeholders with the

local and global economy we created

we developed in all three lines of our

business under challenging pandemics

with the solutions and technologies

We continued uninterruptedly to

provide for our 4,500 strong human resource in five countries, including

productivity, protects their rights as human beings and employees.

and invest in talent development as

conditions in 2020.



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# OCCUPATIONAL HEALTH AND SAFETY

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KORDSA SUSTAINABILITY REPORT

# **INTERNAL STAKEHOLDER VIEW**

**%86** of our employees who responded to the sustainability assessment survey think that...

Kordsa takes necessary measures sufficient to oversee and secure health and safety of its employees.

### OCCUPATIONAL HEALTH AND SAFETY

Health and safety of our employees comes first among our company's strategic sustainability priorities. The common and only goal of all our people and departments in charge of occupational safety is to attain zero occupational accident and zero occupational disease. We are aiming to hit this target by establishing the behavior centered occupational health and safety consciousness culture in all our employees.

We implement "The 10 Golden Rules of Occupational Safety" to prevent employee injuries across all our sites. We renew the process hazards researches every three years. We have Management-Worker Health and Safety Committees in all our facilities with the same operating structure. 100% of our workforce is represented in these committees.

Majority of project ideas on occupational health and safety improvements originate from our employees. We took precautions against accidents thanks to our employees' ideas.

### 2020 Performance

During the reporting period, no fatal accident has occurred at Kordsa or at any of its subcontractors. In Turkey, Thailand and Laurel Hill USA we closed the year with zero recorded accident. San Marcos USA and Santa Ana USA had one recorded incident each, Indonesia, Brazil and Anaheim USA had two recorded incidents each, and Chattanooga USA recorded three accidents. Thus, our 11 facilities had 1 incident on average where our employees were involved.

Details of our Occupational Health and Safety Management Approach (Implementations and Control) is **here.** 

Data on Occupational Health and Safety performance by country are **here.** 

Details of Management-Worker Health and Safety Committees are here.

OHS Training Hours/ Employees	Kordsa	Contractor	OHS TRAININGS
Turkey - İzmit	5	5	In 2020, we
Turkey - CTCE	4	4	provided our employees with
Brazil	21	6	trainings under about 20 topics
Indonesia	3	3	in general, health
Thailand	4	1	and technical categories,
USA - Chattanooga	8	3	ranging from legal rights and
USA - Laurel Hill	3	1	responsibilities
USA - Quakertown (FDI)*	8	7	to biological and psychosocial risk
USA - Anaheim (TPI)*	8	0	factors, from first aid to electrical
USA - San Marcos (AHT)*	2	N/A	dangers, risks and how to prevent
USA - Santa Ana (Axiom)**	8	6	them.

CTCE: Composite Technologies Center of Excellence

- * Composite companies joined Kordsa in 2018
- ** Composite company joined Kordsa in 2019



# OCCUPATIONAL HEALTH AND SAFETY





Project Name	Monitoring EHS Rule Violations with AI-Assisted Image Processing Technology
Location and Date	Kordsa İzmit Facilities / 2020
Objectives and	As part of TÜSİAD SD ² Transformation in Industry Program, we started to work on creating warning and reporting of OHSE violations via processing surveillance camera images according to a programmed set of rules and tolerances in artificial intelligence algorithms.
Actions	We achieved the mapping of rule violation intensity, elimination of the violations via instantaneous warning information and conclusion of the predefined actions, and tracking of the impacts, and evaluation of the effectiveness of corrective actions.
Results	We made the OHSE compliance status in a defined area monitorable and trackable on a 24-hour basis. As well as supervising COVID-19 countermeasures, we prevented the violations of work health and safety and the consequential work accidents.
Plans for Future	We are planning to spread this scheme on other facilities.



Project Name	Constant EHS Risk Evaluation
Location and Date	Kordsa İzmit Facilities / 2019-2020
	To keep risk evaluations constantly updated and popularize the learned risk countermeasures, the risk evaluations that were previously prepared in Excel format and reviewed once every three years were moved to an online platform using Fine Kinney methodology.
Objectives and Actions	We developed a system that enables the online tracking of the actions set to reduce the level of risk in highrisk tasks down to acceptable levels, establishes the one-to-one link between risk and action connection, keeps track of the automatic post-action risk revision processes and executes the risk evaluations 100% compliant to the legislations.
	We formed risk evaluation teams for all departments from their own staff and through the risk evaluations they made we increased their awareness.
Results	We looked over the dangers and risks for all fields and tasks from scratch. We prevented possible accidents by reducing high risks down to acceptable risks by actions.  We prevented possible post-accident material damages and workforce losses.
Plans for Future	Project is completed.

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KORDSA SUSTAINABILITY REPORT

# Total Productive Maintenance (TPM) Integration

TPM integration launched in 2015, is regarded as one of the most essential initiatives under sustainability management because of the positive economic, social, environmental and corporate benefits it generates.

### Activities in 2020

Although it got slower in the beginning due to pandemics, the TPM works continued uninterruptedly thanks to the online works and consultations.

# Turkev

As the eight pillars of TPM continued to work actively, we extended the scope by adding the Early Product Management topic under the Early Management column. We completed the fourth step works which aim to keep the machinery in their basic conditions by increasing operator skills for autonomous maintenance by 78%. We continued our TPM works for TPM Excellence Award Category A. As all the committees were being fit into a standard structure, in the meantime we continued to prepare the Kordsa izmit TPM Book.

### Indonesia

Seven pillars of TPM continued to work actively. We prepared IndoKordsa TPM Book for TPM Excellence Award Category B.

### Brazil

Five pillars of TPM continued to work actively. We examined and studied the good practices in other Kordsa facilities. We focused on the autonomous maintenance works in order for the autonomous maintenance teams to complete the third step.

### Thailand

Six pillars of TPM continued to work actively. We focused on the completion of the fourth step works.

# ABD-Chattanooga & Laurel Hill

Three fundamental pillars of TPM continued to work actively.

# Composite (USA)

We continued the 5S works.

# Composite (EMEA)

We continued the 5S and autonomous maintenance works.

### Our Future Plans

We will keep up with the trainings where the pillars of the TPM are explained

in detail to broaden the awareness and increase the leadership across all our employees in our facilities. We will activate all TPM pillars where the committee leaders will play influential roles. We will continue to work for TPM Excellence Award application process and to collect the resources for the future Kordsa TPM Activity Book.

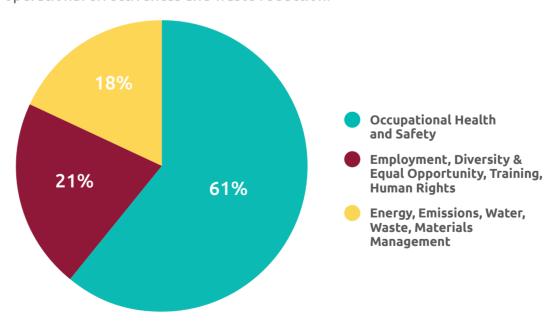
# **Employee Suggestions for Operational Excellence**

The classical suggestion system which was transformed by TPM integration continued to be available on the Kaizen portal since 2019. We defined constraints and acceptance criteria in the Kaizen suggestion system; and because of this we observed a drop in the number of Kaizens while the quality is improved. We formed a new marking systematics by preparing a points matrix.

We had planned to begin reviewing all the improvement suggestions all employees across Kordsa's premises would submit including our sustainability priorities on this global portal from 2020, but we could not put this plan in practice due to pandemics.

In 2020, we received 3,239 improvement suggestions from our employees in Turkey. While 1,480 of the suggestions were about 5S, TPM, product quality, equipment efficiency, 61% of the 1,835 suggestions regarding our direct sustainability priorities were about occupational health and safety. We put 85% of all suggestions into practice.

The Indonesia TPM teams won two **All Stars** awards with two projects on operational effectiveness and waste reduction.



# SUSTAINABLE GROWTH



About the Report

# INTERNAL STAKEHOLDER VIEW

**%79** of our employees who responded to the sustainability assessment survey think that...

Kordsa creates significant economic value for its key stakeholders.

### SUSTAINABLE GROWTH

As Kordsa, we transformed ourselves into a company that innovates, produces, and offers advance technology to the whole world. We continued to take leaps forward to contribute to our country's development in 2020 by successfully managing the pandemic our modern world has experienced for the first time on such scale. Thanks to the advantages of being a global company with establishments in five different countries, we served our customers with speed and agility, and maintained continuity in business.

We continued to create profitability in all the geographies we were operational in with our strategic decisions and reinforcement technologies. Thanks to our strategic investments and industry-leading technologies, we closed the year 2020 with 4. 5 billion TL turnovers. Our period profit has been TRY 150 million, and our main operational profit has been 384 million TL.

# We Put Our Name on Global Projects in Composites Technologies!

In 2020, we continued to expand our field of impact and deepen our abilities along with four major companies we added to our group from the composite's world through acquisition in the preceding period. With Fabric Development we reached out to the sky and provided NASA with the fabric they used in the Orion Capsule, and with Axiom Materials we extended our high-temperature resistant Oxide-Oxide ceramic composite materials portfolio to applications reaching up to 1,400°C. We also had our signature on another important success by having the battery cell caps made in England use the fiber fabrics we produce with our extensive experience and know-how in advanced material technologies, which will be revolutionary in making the future of mobility electric vehicles even lighter.

In 2020, the subsidy we received from the government as part of Turquality Scheme decreased by 42% down to 345,000 TL.

# The Value We Distribute to Our Stakeholders

In 2020, our suppliers which also cover our operational expenses had the highest share, 82% of the economic value we distributed to our stakeholders followed by our employees with 14%.



14% Employees

**Government & Communities** 

0% Shareholders

3% Profit Messages to Our Stakeholders

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# SUSTAINABLE GROWTH



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Project Name	Development of A New Generation Polyester Yarn and Cord Fabric with High Elasticity and Modulus
Location and Date	Kordsa İzmit R&D / 2020
Objectives and	Carcass layer of a tire impacts safety immensely and reinforcement of it plays an important role in a tire's quality and hence, its performance and durability. Dimensional stability is one of the basic requirements for a carcass reinforcement material.
Actions	This project's goal is to develop a new generation polyester yarn and cord fabric with high elasticity and modulus. We designed a new twisting, weaving and treatment solution and process environment to develop a product that could deliver the high curing performance in demanded specifications.
Results	Corporate: The product is commercialized and is already selling.  This product provides our customers:  - Less rolling resistance, less fuel consumption and in conjunction to these, less CO2 emission with homogeneous elasticity  - Better toughness for tire bursting resistance  - Better fatigue performance for longer tire life  - Better tire use performance  We achieve better adhesion in large tires with a longer curing process.
Plans for Future	We will expand our customer portfolio with global expansion activities considering these works, thereby achieving an increase in the new product sales revenues.



Project Name	Flame Retardant Epoxy Resin Formulation Development for Aerospace Interior and Public Transportation Applications
Location and Date	Composite Technologies Center of Excellence and Sabancı University / 04.2017-08.2021
Objective and Actions	The primary concerns with aircraft fires are flame, smoke, and toxics. In a severe aircraft fire, more lives are lost by smoke than heat or toxics. Fire resistant resin matrices in glass/carbon fiber composites could significantly reduce the hazards resulting from an aircraft fire. Phenolic resin impregnated prepregs provide the optimum level of fire resistance in Aerospace Industry.  In scope of the project, it is aimed to formulate a new hot melt, processable, halogen-free, flame retardant epoxy system that can replace phenolics in terms of its FST properties. The new resin system to be formulated will be tested according to ISO 45545 and FAR.853 Standards.
Results	With the new flame retardant prepregs, Kordsa will have a stronger product portfolio. Kordsa will find opportunity to service below markets where flame retardancy is an important requirement, that are: aviation and aerospace industries, machine industries, marine and automotive applications and sporting goods.
Future Plans	We continue commercialization works.

# **SUPPLY CHAIN MANAGEMENT**



INTERNAL STAKEHOLDER VIEW

**%72** dof our employees who responded to the sustainability assessment survey think that...

Kordsa's policies, trainings and audits on human rights concerning its suppliers's operations are adequate.

### PROCUREMENT PRACTICES

The global purchasing function, located at our headquarters in Istanbul, is responsible for the procurement of the raw materials used in 12 plants in five countries and/or whose supply is considered strategic, in addition to capex and service procurements above a specific budget.

Local purchasing departments are responsible for the supply and follow up of all services and raw materials other than the abovementioned items. The suppliers of which the trading terms are specified by Global Purchasing Department are also managed by local purchasing departments in terms of operational order processes. The consolidated import ratio of all Kordsa operations is 70%.

Our main procurement item is raw materials.to produce nylon and polyester yarns, cord fabric, single end cord, concrete reinforcement fiber and composites.

# Raw Materials including Chemicals Packaging Energy Other Products and Services Management Expenditures Shares of Purchasing Functions Functions Functions Functions Functions Functions Functions Functions Functions Functions Functions Functions Functions Functions Functions Functions

### SELECTING AND ASSESSING SUPPLIERS

We require our suppliers and business partners to operate in accordance with the principles in the Statement on Code of Business Ethics we prepared based on Kordsa Code of Business Ethics. This code outlines our company's expectations for the undersigned conduct regarding labor and human rights, health and safety, environmental protection, ethics, and management practices.

The details on processes of supplier selection are **here.** 

Following the 2020 performance reviews and system audits, none of our suppliers scored less than 60 points.

# Supplier Sustainability Assessment Survey

We included the implementation of a more comprehensive sustainability impact

assessment in addition to our current processes in 2019. We started to directly integrate our suppliers' sustainability scores to our current assessment system.

In 2020, 73% of our global suppliers participated in the survey. The share of the suppliers we could reach in our global raw materials procurement is 79.5%, which excludes the suppliers we get packaging, transportation, and similar services from. (Our global procurement team carries out the purchasing of 90% of the raw materials that all our plants require.)

With the survey, we evaluate the performances of our suppliers on topics of Reporting, Ethics Policies and Practices, Occupational Health and Safety, Human Rights, Supplier Screening, Labor, and Environmental Management.

The survey that we will continue in 2021, we aim to reach and evaluate sustainability performance of 100% of our suppliers who represent 86% of our procurement budget, either through Ecovadis or another special online survey.

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# **SUPPLY CHAIN MANAGEMENT**

Project Name	Registration, Evaluation, Permission and Restriction of Chemicals (KKDIK)
Location and Date	All Kordsa Plants / 2020-2023
Objectives and Actions	We started this project with a team of nine from Procurement and R&D departments to register all chemical compounds we use to the Ministry of Environment System, and our eventual goal is to register every product of ours to KKDIK. The most important challenge we may face in this process is the lack of content information from our suppliers on their products.  In the 2020 phase of this project, we carried out Preregistration Processes, C&L (Classification and Labelling) notification, and SDS (Safety Data Sheet) preparation and revision.
Results	In light of our Sustainable Responsible Procurement principles, the registration, evaluation, permission and restriction of all hazardous and non-hazardous chemicals will be kept under control.
Plans for Future	Completion target for the project is 12.31.2023



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## **HUMAN RIGHTS**



INTERNAL STAKEHOLDER VIEW

**%81** of our employees who responded to the sustainability assessment survey think that...

Kordsa's policies, trainings and audits on human rights in its locations are adequate.

## **HUMAN RIGHTS**

At Kordsa, we aim to comply with Universal Declaration of Human Rights and all regulations in the countries of operation and look after all rights of our employees by adopting the international declarations, conventions, and principles that our country is a party too.

Our approach towards our people is honest and fair. We commit to a nondiscriminative working environment for all, making sure our people enjoy their employee rights fully and properly. We also monitor and maintain protection of human rights for our sub-contractors and suppliers in the value chain through Supplier Sustainability Evaluation Survey and the supplier contracts.

Details of our Human Rights Management Approach (Implementations and Control) is here.

Please click **here** for Kordsa Human Rights Policy.

## 2020 Performance

We did not receive any complaints regarding human rights violations or discriminative practices at any of our locations in the reporting period. 1,462 employees took ethics trainings which include human rights content.

In Turkey, Indonesia and Brazil, the ratio of total number of employees under any type of collective agreement with respect to total number of blue-collar workers has reached 55% in 2020, totaling to 2,018 employees. Our employees in USA, Thailand and China are not unionized. There has been no incidence of violation for freedom of association in 2019. Our operations do not bear any apparent and significant risk concerning these issues.

Topics Covered by Collective Labor Agreement	Turkey	Indonesia	Brazil
Occupational Health and Safety	$\checkmark$	$\checkmark$	√
Working Conditions (work-rest hours, leaves)	√	√	√
Training	$\checkmark$	$\checkmark$	-
Career Management	-	√	-
Employee Representatives' Tasks and Responsibilities	$\checkmark$	√	-
Additional Work Payments	$\checkmark$	$\checkmark$	√

Location	Indonesia
Name	Bipartite Discussion
Frequency	Monthly
Target Group	Labor Union
Participation	About 200 people
Purpose	To sustain the collaborative and smooth relationship between the Management and Union.
Location	Thailand
Name	Welfare Committee
Frequency	Bimonthly
Target Group	Representatives of each department
Participation	15-20 people
Purpose	To discuss issues on employees' work-related welfare and benefits, satisfaction from internal services  To act as a communication bridge with top management

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KORDSA SUSTAINABILITY REPORT

## INTERNAL STAKEHOLDER VIEW

%78 of our employees who responded to the sustainability assessment survey think that...

At Kordsa, the communication channels for employees to share their ideas and opinions with the management are adequate.

## **EMPLOYMENT**

We see our human resources as the most valuable capital of Kordsa. From recruitment to retirement our priorities are to secure their health and safety, to enhance personal and occupational development and to provide them with a pleasant work environment where their employee and human rights are fully assured.

## **Sustainable Recruitment Policy**

Having considered the requests and feedback from our stakeholders, our HR department reviewed and edited the Kordsa HR Policy in 2020.

The new policy covers the following topics:

- ► Comparable Terms and Conditions
- ► Working and Living Conditions
- ► Freedom of Association
- ► Reasonable Working Hours
- ► Grievance Mechanisms
- ► Local Legal Compliance & Kordsa Requirements
- ► Capability Building
- ► Equal Opportunities and Ensuring Gender Equality
- ▶ Prohibitions Forced and Child Labor

## **Employee Satisfaction**

We monitor our employee satisfaction through employee engagement surveys, roundtable meetings with the CEO and ELT where they listen

to employees' opinions and receive their feedback and with white-collar / blue-collar interaction meetings. We conduct employee satisfaction surveys biennially and the most recent one was in 2018. The engagement ratio in 2014 raised from 44% to 62% in 2016 and to %68 in 2018, 2020 survey is postponed to 2021 due to pandemic. Our target is to maintain an engagement ratio over 65%.

## **Long Term Tenures**

The average employee tenure across Kordsa plants is 12 years. As of 2020, the longest period is 15 years in Brazil and 14 years in Indonesia. Our employee turnover rate dropped by two points and turned 9.3% in 2020.

## **Performance Evaluation**

All Kordsa employees are subject to regular performance and career development evaluations.

## Recognition and Rewarding (



At Kordsa we implement a fair and inspiring **recognition and rewarding strategy** to help retain the skilled, talented employees at all responsibility levels.

## **Internal Career Opportunities**

We provide overseas assignments to ensure the personal development of employees, and to develop a common culture across all Kordsa sites. Currently, 17 of our employees are positioned abroad for long term assignments.

Our Performance on Equal Opportunities and Diversity is here.

Detailed data on employment and diversity is **here.** 

## Future of Work

In this journey of transformation, we started with the vision of becoming an advanced material technology company, we started to integrate Sabanci Holding's "Future of The Business" Project in Kordsa rapidly. We are handling the Future of Business from many aspects beyond remote work. From agile working systems to work, life and health balance, from remote work to leadership, skill, and performance development, we are preparing our employees and Kordsa for the future with actions that will impact and transform our work culture in different dimensions.

With the works we carried out with Boston Consulting Group, we gathered these initiatives under seven titles (1-Smart working, 2-Physical and Mental Health, 3-Flexible and High-Performance Workforce, 4-New Talent and Skill Transformation, 5-Leadership That Touches Mind, Feelings, and the Worker, 6-Agile and Digital Transformation, 7-Culture That Creates Common Purpose) and we will put our actions in practice in Turkey, Brazil and USA and then in the APAC territories. With this Project initiated during the pandemics period, we have taken a step to become one of the example establishments in the sector and around the globe.

We prepared and took our Remote Work Procedures into action in May 2020 in accordance with these works besides pandemics circumstances.

## **All Stars Awards**

Since 2006 at Kordsa, we reward successful projects, employees who take part in these projects, and high performing Kordsa plants globally and annually under 'All Stars Awards' scheme. All Stars is a Global Recognition and Rewarding practice run by Global Human Resources on top of local recognition and rewarding processes managed by each county's human resources teams.

Each employee is encouraged to participate with any project of her taste. The process starts at the end of each year. After evaluation by judging team. ELT reviews the results. Submission of projects and evaluation take approximately four months.

All employees are invited to awards ceremony that takes place in the following year and the ceremony is broadcasted live through video conference.

In "All Stars 2019 Awards" that took place in January 2020, 263 out of 805 participants won an award in 36 projects out of a total of 106 projects in nine different categories. The prizes given to the winners summed to approximately 100 thousand dollars. Sustainability was also added to the prize categories in 2020.





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## Young Advisory Board

Young Advisory Reinforcers (YAR), as we call it in Kordsa, is a program we initiated in the last quarter of 2019 to be able to add the young generation's phenomenal energy and fresh point of view in our Executive Leadership Team (ELT)'s agenda and integrate their approach in ELT's strategic decision-making processes.

While acting like ELT's shadow with its diversity moving as one body and functioning as a cultural bridge between young colleagues and top management, YAR project will create a future value for the company while supporting in-company harmony and loyalty.

The team in this platform can suggest value creating projects where they can reflect their young points of view and continue their work. Besides, they can take part in projects recommended to them by our CEO.

With its supportive and galvanizing approach in line with Kordsa's entrepreneurial, courageous, passionate, and constantly progressing values, YAR is an important vehicle for the popularization of the methodology of agility Kordsa takes as fundamental, which creates a win-win situation for Kordsa, the Leadership Team, and the young employees.

While contributing to the strategic decision-making processes, YAR takes place within important projects for Kordsa and has opportunities to develop themselves by working like a shadow of the ELT for a year and tap into their experiences and points of view in the process. This makes them a part of the management and the decision mechanism. In return, the ELT can feel the pulse of young generation by benefiting from their unorthodox points of view and create long-term value for the entire Kordsa employees.

Turkey is applying this project as the pilot country in 2019-2021. Normally it was planned as a one-year work process but due to pandemics we decided to extend it by an additional year.

Young Advisory Reinforcers team will set their own working principles, form their own agenda, bring project suggestions for the company or their own functionality, and will materialize them with addition of new members every year. In the meantime, the company management may come up to the YAR team with their own projects and share with them the subjects they will be asked to work on.

This project will be put in practice in all our locations globally in the upcoming years.





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## Flexxa (Kordsa Flexible Work Model)

Our flexible work model that we initiated to contribute to work life balance of our employees and support them to gain more control over work

schedule was also very impactful in aligning with expectations of generations Y & Z and to enhance employee engagement.

Flexxa is a program that we aim to contribute to business and private life balance, to increase employee happiness and support our employees to take more control over their work program. We expect to measurwe the effectiveness of the program after pandemic period.

## **Results and Gains:**

- Plays an important part in increasing employee motivation and facilitating their decisions to continue working for Kordsa.
- Enhances efficiency and competitive power, impacts positively to employer brand.
- Decreases late show up and absence ratios as a result of employee control over work schedule.
- Increases our service quality and eliminates stress and tension in the case when all positive factors go astray.
- Increases employee happiness and desire to go to work with a more content and healthier mindset.
- Shines out as an impactful working system in terms hiring and retention of skilled employees.
- We believe it will contribute positively to results regarding employee satisfaction and engagement.



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## Kordsa Reinforest

In 2016, we grouped processes of climate, culture, and engagement surveys under the roof of Reinforest brand and began to conduct our human resources activities with this internal brand's framework.

The Reinforest concept is derived from the words rainforest which regulates earth's climate, and our market placement Reinforcer, which represents Kordsa's reinforcement products. Reinforest is promptly embraced by our staff. We intend to empower our employees via Reinforest brand, which we developed by integrating Kordsa's reinforcer positioning with climate, culture and engagement components that interact and trigger each other, and with our practices that support it. The 2020 activities of Reinforest in our five countries of operation are given in the following pages.



Location	Turkey
Name	A Step Forward with HR (Structured meetings series)
Frequency	20+ interviews in 50 hours
Target Group	All white-collar employees under manager role
Participation	220 people
Purpose	To create a two-way communication channel for employees, to help build strong employee relations, share information on inquired HR issues and get feedback

Location	Brazil	
Name	Engagement Focus Groups	
Frequency	Biennially	
Target Group	Representatives of each department	
Participation	About 70 people	
Purpose	Share the engagement results and build together an action plan to get better results.	

Location	Thailand
Name	Employee Engagement Driver
Frequency	Monthly meeting
Target Group	All employees
Participation	50-70 people
Purpose	To share employees' opinions about any issue in the company and find solutions together.

Location	Indonesia
Name	Communication Forum
Frequency	Annually (1-2 days)
Target Group	Al Employees
Participation	Over 1,000 people
Purpose	To keep employees informed on current condition/action plans and on future plans of company in the next one year. To gather top management and employees in workshops and QA sessions.

-	
USA	
Off-site Quality Meeting	
Annually	
All employees	
331	
Business Information and team building	

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Project Name	CEO Talks & ELT Talks Online Meeting Series
Location and Date	All Kordsa Plants Online / 2020
Objectives and Actions	This is a series of online meetings moderated by our CEO or the ELT member participant of the month. These meetings have a different theme every month, where participants stakeholders are chosen from top management in some months, and from employees in others.  We discuss Kordsa values and competencies with our employees on online platforms and listen to our leaders share their experiences. We encourage learning from each other. In some months we have speakers among our employees where we listen to their local professional or personal experiences.
Results	Our employees had the opportunity to witness real life examples about our values in the CEO Talks and ELT Talks series which are open to all employees. We helped our employees internalize our values and competencies with examples regarding how to match competencies with behaviors and examples on which behavior is expected from employees under what circumstances. This type of sharing maintained a continuity in communication with our employees during pandemics.
Plans for Future	While project can be enriched in terms of participant profile and content, we planned to continue the process as "People Talks" and select the speakers from among employees of different functions and according to their expertise.

Project Name	Our Hobbies Our Values
Location and Date	All Plants / 2020
Objectives and Actions	In this project Kordsa employees from all around the world took the time and voluntarily shared their pastime passions by matching them to our corporate values in short videos with their colleagues.  As the values and competencies change with Sabancı of the New Generation, we wanted to promote them, have them heard in the organization and internalized in the corporate culture, and by doing so, enable the changing values to live on.
Results	We reached out to the Kordsa employees from all around the world with other Kordsa employees from all around the world. Contents were produced in five different languages and shared from all platforms within the company in a way that completed each other. We reached 6,500 clicks.



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## TRAINING AND DEVELOPMENT



## INTERNAL STAKEHOLDER VIEW

**%65** of our employees who responded to the sustainability assessment survey think that...

Kordsa's personal development and training programs provided for its employees are adequate.

## TRAINING AND DEVELOPMENT

As Human Resources Department, with our training and development teams at all Kordsa facilities, we implement various practices to align training and education activities, to meet local requirements and needs, and to support employees in realizing their career goals as they perform their duties safely and effectively.

Apart from the training programs within the company, we can direct our employees to other development programs organized by Sabancı Holding such as T-PX that is aimed at senior engineer level and X-Posure Sabancı Program for medium level managers.

## 2020 Performance

The total hours of training our employees received in 2020 reached 214 thousand hours. We provided 56 hours of training per person on average. The trainings focused on career development topics by 62%.

In 2020, 39 employees participated in Kordsa Global Mentoring Program.

Please click **here** for our Training and Development Management Approach (Implementations and Control) and Global Development Programs.

Detailed training data is located here.

## **Trainings**





**17%** Safety and Environment

Other

## **Average Training Hours Bv** Gender

Men	72
Women	52





## **KEEP (KORDSA E-Learning & Empowerment Platform)**

Since 2010, KEEP serves as an easily accessible and individualized training program tailored to our company, and to cascade the technical expertise of the world leader in the industry to all our employees in a more efficient method.

All employees with a corporate e-mail address can access the e-learning sessions delivered over the KEEP system in local languages on various categories anytime they want, in or outside company premises, on all our locations. Our employees can join personal development, technical development, corporate integrity, and other development trainings over the KEEP system, as well as managing their training plans, apply for classroom trainings, and suggest new trainings. As the classroom training-planning module has been designed to run over the KEEP system, employees can manage all training and development activities over the system in a 'self-service' mode.

We regularly share all updates and notices with our employees since the launch of the system through e-mails, videos, and posters hung up in our sites, screensavers, intranet announcements, and various rewarding activities.

In 2020, the amount of training our employees received on KEEP multiplied by 2.5 and reached 3,695 hours.

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## **SDG 5: GENDER EQUALITY**







At Kordsa, we practice equal opportunities from recruitment to retirement policy, providing equal work environment for all. We support our approach by complying with the principles of international initiatives.

Diversity and cultural differences in our global human resources constitute the foundation of our corporate culture in Kordsa. We manage all human resources issues by taking the local approaches and practices and global trends into consideration.



## **EMPLOYEE FEEDBACK**

I care about sustainability as a whole and the fact that my company prioritizes the environment, business ethics and social justice issues as much as I do, definitely makes me want to keep working at Kordsa.

2020 Employee Sustainability Survey

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## INTERNAL STAKEHOLDER VIEW

%74 of our employees who responded to the sustainability assessment survey think that...

Kordsa's recruitment, placement and waging practices to support equal opportunities for women & men, and employee diversity are sufficient.

## **EOUAL OPPORTUNITY AND DIVERSITY**

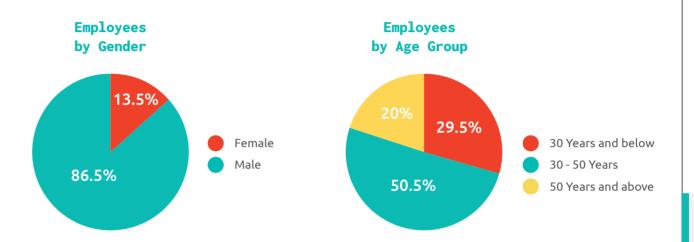
Besides the fair working environment for hiring and career planning for women, we also offer private health insurance that covers childbirth, and lactation rooms for their convenience. We provide health services, health insurances and retirement plan for all our full-time employees.

In 2019-2020 period 6 female and 58 male employees used their maternity leaves and 100% of them returned their job to work at least another 12 months in our company.

We planned to initiate 'Engineering Reinforcer Women' and 'Diversity and Inclusiveness' projects by establishing their infrastructure in 2020.

Details of our Management Approach on Equal Opportunities and Diversity (Implementations and Control) is located here.





Number of Employees	
EMEA	1,539
Asia Pacific	1,477
South America	398
North America	622
Average Tenure (Years)	
All Kordsa	11.64
Thailand	9.74
Indonesia	14.33
Brazil	14.92
USA	10.66
Turkey	10.21
Average Tenure (Years)	
Female	11.0
Male	11.7

## **EQUAL OPPORTUNITIES AND DIVERSITY**

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## Women's Co. (Equality at Work Project)

In 2016, our Human Resources Department launched Women's Co. Project for women employees at Kordsa plants across the globe. The primary concern of the project is to raise awareness and consciousness on gender equality among employees, starting from the top management. Our objective is to design a systematic approach in equality at work and integrate all our efforts under this framework.

The actions we took to incorporate these practices in our processes are identification of local and global targets, detailed analysis of femalemale employees, observation of women's expectations through surveys and their satisfaction level regarding the current situation and designing development programs in line with the survey results. We determined 5 years objectives for the project that cover numerous cultures in four continents.

## **Targeted Social Gains**

Empower women employees to become more competent in their work and private lives.

## **Targeted Economic Gains**

Increase women employment where the ratio is low.

## **Targeted Corporate Gains**

Create opportunities for women employees to be more effective in decision making mechanisms that will lead us to reach our corporate objectives.



Place	Brazil
Name	Being Plural Program
Frequency	During the whole year (Twice a month)
Target Group	All employees
Participation	Over 600 (including contractors)
Purpose	To enhance people's awareness about Inclusion and diversity

Place	Turkey
Name	Women's Club
Frequency	A few times a year
Target Group	All female employees
Participation	120 people all year around
Purpose	To support our women employees in social life as well; to contribute to their creativity, concentration, communication skills

## **EQUAL OPPORTUNITIES AND DIVERSITY**



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## **New Grad's Program**

In order to meet young talents, feed our talent pool, and support our organizational enhancement, we collaborated with student clubs of elite universities in Turkey for the New Grad's Program that we rolled out from January 2019 to September 2020.

Within the project scope, we have done needs assessment, career day organizations for technical and support departments and organized diversified selection processes. We organized their rotation and development program after they were hired. By the end of sixth month, they presented their projects and by the end of their first year at Kordsa, they were graduated from the program. We also assessed whether our interns can be suitable to nominate for open positions after graduation by letting them take project-based responsibilities during training.

## **Results and Gains:**

- We provided both workforce and intern resource for operations, technical and support departments.
- Since the start of the program, five young talents began to work as interns and seven participants began to work full time.
- We fulfilled the requirements of Sabancı of New Generation.
- Our brand awareness as an employer enhanced.

## Our Future Plans:

Through visits and activities at local and international universities, we intend to raise brand awareness as an employer among the talents in potential target audience, to attract talents, diversify assessment stages, and to provide participants with an extraordinary experience.

## G.O. Reinforcers

In 2020, we started a particularly important project to corroborate our employer brand. Kordsa. Global Online Internship Program is targeted at the 3rd and 4th year students at universities, aiming to have the interns gain experience by working in project teams and experience Kordsa's global position.

In the meantime, we aim at reaching high potential youth and offer them employment.

We received 3,363 applications in total from all countries. Selected students worked online in Kordsa's premises in different countries for a month over July and August.

## Women Who Reinforce Engineering

We initiated this project specially to inspire and pave a way for young female engineers from Anatolian universities with limited resources.

We wanted to create an opportunity for young female engineer candidates in our country to join a six-month mentorship program. 451 female engineers who applied online over LinkedIn were invited to the panel we organized.

Kordsa's female reinforcers shared their stories with 272 engineering students in this online panel.

Then the candidates shared their own stories with Kordsa in one-page essays for the mentorship program. Seven of the 35 applicants will be selected and included in the program as mentees of the seven reinforcers.

# QUALITY EDUCATION

## **SDG 4: QUALITY EDUCATION**





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At Kordsa, we focus on Quality Education in all our social responsibility projects we perform with our volunteer employees' participation. We believe allencompassing quality education is a vital tool for sustainable development.

With this understanding, we undertake projects that support the education of children and youth irrespective of their gender or their income level, and therefore reinforce their future in regions where our facilities are located.



## **EMPLOYEE FEEDBACK**

Kordsa is a company that values human, employees, public, environment and future. I think it is very generous in giving back to the society as it earns.

2020 Employee Sustainability Survey

## **COMMUNITY DEVELOPMENT**



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## INTERNAL STAKEHOLDER VIEW

**%67** of our employees who responded to the sustainability assessment survey think that...

Kordsa has sufficient social development investments for the local community.



Our "We are inspired to Reinforce Life" vision drives our social responsibility projects in all geographies we operate. We initiated the "Reinforcing Future **Project" which sets** the framework for our education support projects based on United Nations **Sustainable Development** Goals quality and equality in education article in 2016 at izmit where our main plant is and began deploying it in Turkey and other countries.

## Reinforcing the Future Project

**School of Reinforcers** 2016-2020 Highlights



1.040 Students We Touched

**1.000** Kordsa Volunteers

Cooperation with Kocaeli City and İzmit National Education Administrations, and Local Administrations

## 2020 Highlights of ÖRAV Cooperation



1 Year

109 Teachers

**3** Trainings

**44** Kordsa Volunteers (Runners)

TL33K Investment

ÖRAV: Teachers Academy Foundation

## COMMUNITY DEVELOPMENT



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## Reinforcing the Future Project

## **Project Scope**

Through our regular visits we make every year, we identify the schools which require the most support in terms of infrastructure and educational equipment, and we provide them with heating system, sports arena, educational equipment, science lab, library, dining hall, and nursery classroom and so forth. We make renovations each year in January in which our volunteer staff are actively involved in all stages of projects from idea, project setup, equipment purchasing and setup, logistics to physical activities on the renovation day such as painting.

## Volunteer Involvement

Each year, we implement "School Renovation Project" just after Kordsa's" Global Leaders' Summit" to ensure that all volunteers from premises around the world can participate in the project. With this project while supporting our staff around the world to collaborate, we also provide opportunities for the students and teachers to meet various cultures. Around 250 Kordsa employees voluntarily participate in the project every year. Besides providing education and learning in better physical conditions for students at renovated schools, we also ensure our volunteers to deepen their loyalty and engagement in our company. Thus, employee satisfaction enhances due to their volunteer contributions in society.

## Teacher Trainings in Collaboration with ÖRAV (▶)



## **Learning Leader Teacher Training**

In 2020, we collaborated with the Teacher's Academy Foundation (ÖRAV) for the development of the teachers at a primary school we had renovated. ÖRAV is a foundation which develops training programs to support

teachers' personal and professional developments and takes its programs to teachers free of charge with its team of 250 educators. The "Learning Leader Teacher" program aims to develop teachers into teachers who teach not the information, but teach how to learn, through a set of group studies and application workshops where teachers are shown methods and techniques they can take back to their classrooms. This training program supports the development of teachers and school administrators who shoulder the responsibility in training individuals who possess the mental, social, emotional and digital skills 21st century demands. We helped this program reach 25 teachers in total, 17 of which were from the renovated school, and 8 from the schools nearby.

## Thinking Skills Training

In this year's "Runatolia" which Kordsa's Social Responsibility Club organizes since 2015, our employees ran to raise donations for ÖRAV. With the collected revenue we made 14 teachers receive "Thinking Skills" training.

## Interactive Course in Online Education Design Training

We collaborated with ÖRAV once again in supporting our teachers in the education system that digitalized with the introduction of Covid-19 pandemics in our lives.

For our teachers to adapt to new circumstances and continue to reinforce our children's future, we contributed to the "Interactive Course in Online Education Design" training of 70 teachers from Izmit where our main plant is located.



## **ECONOMIC PERFORMANCE INDICATORS**

Economic Value Created & Distributed ('000 TL)	2018	2019	2020
Economic Value Generated (Net Revenues)	4,059,715	5,304,724	4,685,766
Economic Value Distributed to Stakeholders			
Operating Expenses	3,160,181	4,184,107	3,999,121
Benefit to Employees	463,502	636,172	687,877
Benefit to Government	73,265	85,701	22,427
Benefit to Providers of Capital	68,085	48,632	0
Benefit to Community	24,222	20,103	0
Economic Value Retained (Profit)	270,459	329,856	150,394
Financial Assistance Received From Government			
Turquality	2,505	595	345
Tax Reliefs	37,458	19,164	0
Incentives	35,637	40,915	0



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## SOCIAL PERFORMANCE INDICATORS

EMPLOYEES			
By Gender	2018	2019	2020
Female	414	564	544
Male	3,314	3,486	3,492 🕡
TOTAL	3,728	4,050	4,036

By Type of Employment and Gender	2018	2019	2020
White-collar - Female	237	287	293
White-collar - Male	488	558	549
Blue-collar - Female	177	277	251
Blue-collar - Male	2,826	2,928	2,943
TOTAL	3,728	4,050	4,036

By Location and Gender	2018	2019	2020
Turkey - Female	116	143	144
Turkey - Male	1,323	1,329	1,395
Indonesia - Female	73	74	71
Indonesia - Male	1,123	1,075	1,050
Thailand - Female	112	107	104
Thailand - Male	276	266	251
Brazil - Female	35	36	51
Brazil - Male	342	321	347
USA - Female	78	204	174
USA - Male	249	494	448
China - Female	0	0	0
China - Male	1	1	1
TOTAL	3,728	4,050	4,036

By Age Group and Gender	2018	2019	2020
30 Years and below - Female	91	110	97
30 Years and below - Male	1,115	1,148	1,097
30 - 50 Years - Female	245	266	285
30 - 50 Years - Male	1,711	1,790	1,755
50 Years and above - Female	86	117	162
50 Years and above - Male	480	619	640
TOTAL	3,728	4,050	4,036

EMPLOYEES			
By Management Category and Gender	2018	2019	2020 🕔
Executives (ELT) - Female	1	2	2
Executives (ELT) - Male	9	8	8
Director - Female	6	2	1
Director - Male	14	12	8
Manager - Female	36	39	44
Manager - Male	102	108	116
Engineer & Specialist - Female	132	156	154
Engineer & Specialist - Male	211	209	206
Supervisor & Technician - Female	9	10	13
Supervisor & Technician - Male	145	183	157
Officer (White-collar) - Female	89	94	95
Officer (White-collar) - Male	97	102	100
Operator - Female	166	222	235
Operator - Male	2.711	2.903	2.897

By Other Groups	2018	2019	2020
Expat - Female	0	1	1
Expat - Male	15	16	16
Disabled - Female	0	0	0
Disabled - Male	40	59	38

**TOTAL** 

3,728

4,036

4,050

Governance Bodies	Ratio	
(Board of Directors and ELT)	2019	2020
Women	18.75%	17.65%
30 Years and below	0.00%	0.00%
30 - 50 Years	43.75%	47.06%
50 Years and above	56.25%	52.94%
Expats	18.75%	23.53%
Employees with disabilities	0.00%	0.00%



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KORDSA EMPLOYEE TURNOVER			
New Hires vs Dismissals	2018	2019	2020
New hires - Female	88	92	54
Dismissals - Female	56	74	56
New hires - Male	529	324	260
Dismissals - Male	366	443	319
Total - New hires	617	416	314
Total - Dismissals	422	517	375

Turnover Rate	2018	2019	2020
Employee Turnover*	10.1	11.5	9.3

^{*} Number of employees that quit work/ total number of employees*100

EMPLOYEE TENURES			
Average Length of Service (Years)	2018	2019	2020
All Kordsa	12	11.7	11.6
Turkey	10	9.5	9.7
Indonesia	14.3	14.1	14.3
Thailand	13.9	14.2	14.9
Brazil	11.4	11.1	10.7
USA	11.5	11.1	10.2

Average Length of Service (Years)	2018	2019	2020
W. Collar	10.5	11.3	10.9
B. Collar	12.2	11.9	11.8

Average Length of Service (Years)	2018	2019	2020
Female	10.2	11.5	11.0
Male	12.3	11.8	11.7

KORDSA TRAINING INVESTMENTS		
	2018	2019
Total Number of Trained Employees	3,335	3,349
Total Training Expenses (TL)*	3,168,280	3,148,671
Average Training (By Employee Category)	2018	2019
Executives (ELT)	17.13	24.50
Director	38.24	35.71
Manager	67.85	67.98
Engineer & Specialist & Officer (White-collar)	64.72	63.74
Supervisor	53.83	61.65
Operator & Technician	113.01	72.77
Average Training Hour (By Gender)	2018	2019
Male	89.73	72.43
Female	50.13	51.86
Average Training Hour (By Training Type)	2018	2019
Career Development	46.98	40.04
Personal Development	8.48	7.43
Health, Safety and Environment	18.78	15.19
Average Training Hours (All Trainings)	2018	2019

TOTAL TRAINING HOURS			
	2018	2019	2020
Career Development	181,281	150,516	133,050 🗸
Personal Development	24,858	26,667	36,300 🕢
Health, Safety and Environment	72,456	57,116	36,969 🕔
Other	7,884	1,261	7,634 🕔
Total Training Hours	286,478	235,559	213,953

74.24

62.67

Contractor Trainings	2018	2019	2020
Total Number of Trained Contractors	n.a.	228	216
Total Training Hours	1,614	1,782	1,436

^{*} Contractor trainings are included.

Total Training Hours Per Person



2020 3,284 3,551,653

> 2020 18.15 70.00 54.67

> 50.20 47.11 53.65

> 2020 59.84 35.28

> 2020 35.45 11.11 9.41

2020

55.97

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## KORDSA OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT

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KORDSA OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT (1)								
Plants				Turkey			Thailand	
Accidents	Group	Unit	2018	2019	2020	2018	2019	2020
	Kordsa Employee	Number	0.00	0.00	0.00	0.00	0.00	0.00
The number and rate of fatalities as a result	Kordsa Employee	Rate	0.00	0.00	0.00	0.00	0.00	0.00
of work-related injury	Contractor	Number	0.00	0.00	0.00	0.00	0.00	0.00
	Contractor	Rate	0.00	0.00	0.00	0.00	0.00	0.00
	Kordsa Employee	Number	0.00	0.00	0.00	0.00	0.00	0.00
The number and rate of high-consequence	Kordsa Employee	Rate	0.00	0.00	0.00	0.00	0.00	0.00
work-related injuries (excluding fatalities)	Contractor	Number	0.00	0.00	0.00	0.00	0.00	0.00
	Contractor	Rate	0.00	0.00	0.00	0.00	0.00	0.00
	Kordea Employee	Number	3 LWC	3 LWC - 2 MTC	0.00	0.00	0.00	0.00
The number and rate of recordable work-	Kordsa Employee	Rate	0.21	0.31	0.00	0.00	0.00	0.00
related injuries	Cooksoshos	Number	1 LWC	3 LWC	0.00	0.00	0.00	0.00
	Contractor	Rate	0.63	0.55	0.00	0.00	0.00	0.00
	Kordea Employee	Number	3,024,446	3,242,891	2,602,925 🕢	811,056	783,834	760,080
The number of hours wested	Kordsa Employee	Rate	0.68	0.66	0.68	0.82	0.81	0.87
The number of hours worked	Cooksoskos	Number	952,889	1,096,769	822,619	149,013	146,648	127,096
	Contractor	Dato	0.32	0.34	0.32	0.10	0.10	0.17

0.32

0.34

0.32

0.18

0.19

0.17

KORDSA OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT (2)								
Plants			Indonesia Brazil					
Accidents	Group	Unit	2018	2019	2020	2018	2019	2020
The number and rate of fatalities as a result	Kordsa Employee	Number Rate	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00
of work-related injury	Contractor	Number Rate	0.00	0.00 0.00	0.00	0.00	0.00	0.00
The number and rate of high-consequence	Kordsa Employee	Number Rate	0.00	0.00 0.00	0.00	0.00	0.00	0.00
work-related injuries (excluding fatalities)	Contractor	Number Rate	0.00	0.00 0.00	0.00	0.00	0.00	0.00
The number and rate of recordable work-	Kordsa Employee	Number Rate	4 LWC 0.40	1 LWC 0.08	2 LWC <b>①</b> 0.24	1 RWC 0.31	1 LWC 0.28	2 LWC 0.70
related injuries	Contractor	Number Rate	0.00	0.00	1 LWC 1.13	0.00	0.00	0.00
Kordsa The number of hours worked	Kordsa Employee	Number Rate	2,008,260 0.63	2,392,802 0.67	1,692,608 <b>①</b> 0.89	647,819 0.66	713,432 0.66	573,426 0.55
The number of flours worked	Contractor	Number Rate	738,112 0.37	783,733 0.33	177,399 0.11	221,752 0.34	240,555 0.34	260,383 0.45

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Plants			U	ISA - Chattanoo	oga		USA – Laurel Hil	ι
Accidents	Group	Unit	2018	2019	2020	2018	2019	2020
	Kordsa Employee	Number	0.00	0.00	0.00	0.00	0.00	0.00
The number and rate of fatalities as a result	Kordsa Emptoyee	Rate	0.00	0.00	0.00	0.00	0.00	0.00
of work-related injury	Contractor	Number	0.00	0.00	0.00	0.00	0.00	0.00
		Rate	0.00	0.00	0.00	0.00	0.00	0.00
	Kordsa Employee	Number	0.00	0.00	0.00	0.00	0.00	0.00
The number and rate of high-consequence	Kordsa Employee	Rate	0.00	0.00	0.00	0.00	0.00	0.00
work-related injuries (excluding fatalities)	Contractor	Number	0.00	0.00	0.00	0.00	0.00	0.00
	Contractor	Rate	0.00	0.00	0.00	0.00	0.00	0.00
	Kardea Emplayea	Number	0.00	0.00	2 RWC−1 LW	0.00	0.00	0.00
The number and rate of recordable work-	Kordsa Employee	Rate	0.00	0.00	1.31	0.00	0.00	0.00
related injuries	Cooksoskos	Number	0.00	0.00	0.00	0.00	0.00	0.00
	Contractor	Rate	0.00	0.00	0.00	0.00	0.00	0.00
	Kardea Emplayea	Number	472,508	485,940	457,956 🕔	183,376	202,421	185,545
The number of house weeked	Kordsa Employee	Rate	0.82	0.81	0.81	0.88	0.83	0.80
The number of hours worked	Cooksockos	Number	87,058	90,572	85,315	21,323	34,957	37,094
	Contractor	Dato	0.19	0.10	0.10	0.12	0.17	0.20

0.18

0.19

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KORDSA OCCUPATIONAL HEALTH AN	ND SAFETY MANAGEMEN	T (4)						
Plants			Composite Techn	ologies Center of E	xcellence (CTCE)	USA - Anah	Anaheim (TPI)*	
Accidents	Group	Unit	2018	2019	2020	2019	2020	
	Kordsa Employee	Number	0.00	0.00	0.00	0.00	0.00	
The number and rate of fatalities as a result	Rordsd Employee	Rate	0.00	0.00	0.00	0.00	0.00	
of work-related injury	Contractor	Number	0.00	0.00	0.00	0.00	0.00	
	Contractor	Rate	0.00	0.00	0.00	0.00	0.00	
	Kordsa Employee	Number	0.00	0.00	0.00	0.00	0.00	
The number and rate of high-consequence	Kordsa Employee	Rate	0.00	0.00	0.00	0.00	0.00	
work-related injuries (excluding fatalities)	Contractor	Number	0.00	0.00	0.00	0.00	0.00	
	Contractor	Rate	0.00	0.00	0.00	0.00	0.00	
	Kordsa Employee	Number	0.00	0.00	0.00	0.00	2 LCW	
The number and rate of recordable work-	Norda Employee	Rate	0.00	0.00	0.00	0.00	2,72	
related injuries	Contractor	Number	2 LWC	0.00	0.00	0.00	1 MTC	
	COTILIACIOI	Rate	6.47	0.00	0.00	0.00	17.56	
	Kordsa Employee	Number	131,731	173,765	172,847	245,905	147,183	
he number of hours worked	Kurusa Employee	Rate	0.68	0.48	0.59	100.00	0.92	
He Hulliber of Hours worked	Contractor	Number	61,843	190,664	71,480	0.00	11,388	
	Contractor	Rate	0.32	0.22	0.41	0.00	0.08	

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KORDSA OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT (5)

Plants			USA - Quakertown (FDI)*		USA - San Marcos (AHT)*		USA - Santa Ana (Axiom)**
Accidents	Group	Unit	2019	2020	2019	2020	
	Kordsa Employee	Number	0.00	0.00	0.00	0.00	0.00
The number and rate of fatalities as a result	Kordsa Employee	Rate	0.00	0.00	0.00	0.00	0.00
of work-related injury	Contractor	Number	0.00	0.00	0.00	0.00	0.00
	Contractor	Rate	0.00	0.00	0.00	0.00	0.00
	Kordsa Employee	Number	0.00	0.00	0.00	0.00	0.00
The number and rate of high-consequence	Kordsa Employee	Rate	0.00	0.00	0.00	0.00	0.00
work-related injuries (excluding fatalities)	Contractor	Number	0.00	0.00	0.00	0.00	0.00
		Rate	0.00	0.00	0.00	0.00	0.00
	Kordsa Employee	Number	1 MTC - 1 RWC	1 LWC	0.00	0.00	1 LWC
The number and rate of recordable work-		Rate	1.44	1.00	0.00	0.00	1.00
related injuries	Carbarahaa	Number	0.00	0.00	0.00	0.00	0.00
	Contractor	Rate	0.00	0.00	0.00	0.00	0.00
	Kordea Employee	Number	277,763	227,739	44,100	42,263	207,673
The number of hours worked	Kordsa Employee	Rate	99.97	0.97	100.00	1.00	0.97
The number of mours worked	Contractor	Number	8,133	6,314	0.00	0.00	6,202
	Contractor	Rate	0.03	0.03	0.00	0.00	0.03

## KORDSA OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT (6)

OHS TRAINING HOURS (Employees)	2018	2019	2020	OHS TRAINING HOURS (Contractors)	2020
Turkey - İzmit	10	13	5	Turkey - İzmit	5
Turkey - CTCE	4	6	4	Turkey - CTCE	4
Brazil	10	27	21	Brazil	6
Indonesia	12	8	3	Indonesia	3
Thailand	11	9	4	Thailand	1
USA - Chattanooga	8	17	8	USA - Chattanooga	3
USA - Laurel Hill	8	6	3	USA - Laurel Hill	1
USA - Quakertown (FDI)*	N/A	11	8	USA - Quakertown (FDI)*	7
USA - Anaheim (TPI)*	N/A	2	8	USA - Anaheim (TPI)*	0
USA - San Marcos (AHT)*	N/A	2	2	USA - San Marcos (AHT)*	N/A
USA - Santa Ana (Axiom)**	N/A	N/A	8	USA - Santa Ana (Axiom)**	6

## **Explanations for OHS Data:**

* Composite companies joined Kordsa in 2018

Lost Workday Case (LWC): When the worker cannot return to work the first workday following an occupational accident resulting in injury.

Medical Treatment Case (MTC): When an accident occurs that require medical treatment and the injured person can return to work the first workday following injury.

Restricted Workday Case (RWC): When the injured can return to work the first workday after injury. but is asked to work on another task, as he cannot perform his/her regular task.

Rate of fatalities as a result of work-related injury: (Number of fatalities as a result of work-related injury/Number of hours worked) x 200,000

Rate of high-consequence work-related injuries (excluding fatalities):

(Number of high-consequence work-related injuries (excluding fatalities) / Number of hours worked) x 200,000

 $\textbf{Rate of recordable work-related injuries:} (Number of recordable work-related injuries/Number of hours worked)) \times 200,000$ 

^{**} Composite company joined Kordsa in 2019

## **ENVIRONMENTAL PERFORMANCE INDICATORS**

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KORDSA MATERIALS MANAGEMENT				
Materials	Plants	2018	2019	2020
	Dipping NY - Turkey	1.16	0.98	0.92
	Dipping PE - Turkey	1.11	1.02	0.82
	Dipping - USA / Laurel Hill	1.03	1.04	0.93
TCF Chemical Ratio	Dipping - Brazil	1,04	1.01	0.81
	Dipping TCF1 - Indonesia	1.01	0.99	0.97
	Dipping TCF2 - Indonesia	0.96	0.94	0.93
	Dipping - Thailand	0.98	1.04	0.97
Materials	Plants	2018	2019	2020
	NY Yarn Line 1 - Turkey	1.03	0.99	0.90
	NY Yarn Line 2 - Turkey	0.99	1.00	1.04
	PE Yarn - Turkey	1.01	1.02	0.98
NY Salt / Flake Ratio	NY Yarn - USA / Chattanooga	1.00	0.98	0.58
	Yarn - Brazil	1.77	1.79	0.98
	NY Yarn - Indonesia	1.01	1.01	1.00
	PE Yarn - Indonesia	0.95	1.00	0.96
Materials	Plants	2018	2019	2020
SEC Chemical Ratio	SEC - Turkey	1.21	1.42	0.66
SEC CHEHIICAL KAUO	SEC - Brazil	1.00	0.98	0.92

REUSED MATERIALS (Reuse Ratio)					
Materials	Plants	2019	2020		
	Turkey - İzmit	35%	50%		
	USA -Laurel Hill	55%	86%		
Steel Shells	Indonesia	31%	41%		
	Thailand	86%	84%		
	Brazil	86%	93%		
	Indonesia	8%	28%		
Tubes	USA - Chattanooga	8%	14%		
	Brazil	62%	84%		
	Turkey - İzmit	N/A	16%		
Carton Separators	Indonesia	8%	13%		
	USA - Chattanooga	38%	38%		
	Turkey - İzmit	N/A	33%		
Wooden Pallets	Indonesia	N/A	19%		
	USA - Chattanooga	72%	73%		

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Electricity (kWh)	2018	2019	2020
Turkey - İzmit	189,127,000	191,481,392	160,629,631 🜒
Turkey - İstanbul (CTCE)	2,133,022	2,682,228	2,323,572
Indonesia	201,966,389	175,133,832	151,965,785 🕢
Thailand	45,583,191	41,919,497	36,338,516
Brazil	81,367,492	79,163,328	62,143,543
USA - Chattanooga	59,569,706	60,262,715	53,510,420 🕢
USA - Laurel Hill	19,745,140	20,776,885	18,887,897
USA - Quakertown (FDI)	n.a.	1,360,320	1,201,550
USA - Anaheim (TPI)	n.a.	903,000	858,180
USA - San Marcos (AHT)	n.a.	258,609	274,405
USA - Santa Ana (Axiom)	n.a.	2,070,588	2,043,468
TOTAL	599,491,940	576,012,394	490,176,967

We purchased **International Renewable Energy Certificate (I-REC)** from Enerjisa for our Turkey izmit plant and so used **12,255 MWh** of our electricity consumption from renewable resources.

VODDCA	ENERCY	CONSUMPTION	
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NONDSA ENERGY CONSOLI	1 1 0 1 1		
Natural Gas (Sm³)	2018	2019	2020
Turkey - İzmit	21,271,945	22,676,543	21,096,261 🕢
Turkey - İstanbul (CTCE)	102,950	145,913	147,995
Indonesia	9,949,774	8,284,715	6,559,498
Thailand	3,777,459	3,802,126	3,147,424
Brazil	3,131,902	2,884,710	2.409.499
USA - Chattanooga (Scf)	21,411,641	22,178,329	18,462,584 🕢
USA - Laurel Hill (Scf)	1,718,664	1,832,822	1,990,048
USA - Quakertown (FDI)	n.a.	25,312	57,526
USA - Anaheim (TPI)	n.a.	399	586
USA - San Marcos (AHT)	n.a.	73,718	73,414
USA - Santa Ana (Axiom)	n.a.	444,298	328,037
TOTAL	61,364,335	62,348,885	54,272,871

	CONCUMPTION

Other Fuels (2020)	Diesel Oil (liter)	Gasoline (liter)	LPG (kg)
Turkey - İzmit	68,733	0	0
Turkey - İstanbul (CTCE)	1,385	0	0
Indonesia	33,769	20,583	0
Thailand	16,033	10,984	9,960
Brazil	70,810	12,093	21,700
USA - Chattanooga	47,870	16,922 🕡	2,177
USA - Laurel Hill	0	8,058	0
USA - Quakertown (FDI)	0	9,464	0
USA - Anaheim (TPI)	3,104	1,783	0
USA - San Marcos (AHT)	13,041	13,628	27
USA - Santa Ana (Axiom)	0	16,356	1,334
TOTAL	254,745	109,869	35,199

## Explanations for Data:

**CTCE:** Composite Technologies Center of Excellence **n.a.:** data not available

2019 Total **Diesel Oil** Consumption (liter): 314,956.57 2019 Total **Gasoline** Consumption (liter): 125,388.75 2019 Total **LPG** Consumption (kg): 40,407.38

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**TOTAL** 

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KORDSA EMISSIONS (Scope 1)			
Kordsa Plants (tCO ₂ e)	2018	2019	2020
Turkey - İzmit	44,843.57	47,500.87	43,035.49
Turkey - İstanbul (CTCE)	412.39	495.87	359.64
Indonesia	21,062.63	17,538.43	15,040.53
Thailand	7,903.34	7,929.30	7,182.53
Brazil	6,862.89	6,231.94	6,926.72
USA - Chattanooga	43,712.33	44,369.71	36,026.13
USA - Laurel Hill	3,378.69	3,552.70	3,851.64
USA - Quakertown (FDI)*	n.a.	59.12	134.97
USA - Anaheim (TPI)*	n.a.	23.72	13.60
USA - San Marcos (AHT)*	n.a.	221.26	207.99
USA - Santa Ana (Axiom)**	n.a.	953.07	764.88

128,175.84

128,875.99

113,544.12

KORDSA EMISSIONS (Scope 2)			
Kordsa Plants (tCO ₂ e)	2018	2019	2020
Turkey - İzmit*	87,944.06	88,272.92	68,400.70
Turkey - İstanbul (CTCE)	991.86	1,236.51	1,071.17
Indonesia*	147,233.50	134,677.92	116,861.69
Thailand	21,743.18	19,827.92	17,188.12
Brazil	9,764.10	9,262.11	7,270.79
USA - Chattanooga*	29,613.48	29,957.99	25,197.49
USA - Laurel Hill	9,815.76	10,328.67	6,405.72
USA - Quakertown (FDI)	n.a.	469.41	392.34
USA - Anaheim (TPI)	n.a.	216.07	194.08
USA - San Marcos (AHT)	n.a.	61.88	62.06
USA - Santa Ana (Axiom)	n.a.	495.46	462.13
TOTAL	307,105.93	294,806.85	243,506.29

We purchased International Renewable Energy Certificate (I-REC) from Enerjisa for our Turkey İzmit plant and so used 12.255 MWh of our electricity consumption from renewable resources. Parallel to this, we calculated our Scope 2 emissions over 148,374,631 kWh instead of 160,629,631 kWh, which is our total electricity consumption of 2020. Consequently, our 74,050.26 tCO₂e of Scope 2 emissions in Turkey plant dropped by 5,649.56 tCO₂e and reached 68,400.70 tCO₂e; and our total Scope 2 emissions of 249,155.85 tCO₂e dropped to 243,506.29 tCO₂e.

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KORDSA EMISSIONS (Scope 3) Kordsa Plants (tCO₂e) 2018 2019 2020 Turkey - İzmit* 427,965.90 n.a. n.a. Turkey - İstanbul (CTCE) n.a. n.a. 941.79 Indonesia* n.a. n.a. 170,748.38 Thailand 11,873.07 n.a. n.a. Brazil 16,998.80 n.a. n.a. USA - Chattanooga* 517,515.25 n.a. n.a. USA - Laurel Hill 5,070.56 n.a. n.a. USA - Quakertown (FDI) 837.94 n.a. n.a. USA - Anaheim (TPI) n.a. n.a. 778.14

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1,153,662.95

KORDSA EMISSIONS (Total)	Scope 1&2	Scope 1&2	Scope 1&2	Scope 1&2&3
Kordsa Plants (tCO ₂ e)	2018	2019	2020	2020
Turkey - İzmit*	132,787.62	135,773.79	111,436.20	539,402.10
Turkey - İstanbul (CTCE)	1,404.25	1,732.37	1,430.81	2,372.59
Indonesia*	168,296.12	152,216.35	131,902.21	302,650.62
Thailand	29,646.53	27,757.23	24,370.65	36,243.72
Brazil	16,626.99	15,494.05	14,197.52	31,196.31
USA - Chattanooga*	73,325.81	74,327.69	61,223.62	578,738.92
USA - Laurel Hill	13,194.45	13,881.37	10,257.36	15,327.92
USA - Quakertown (FDI)	n.a.	528.52	527.31	1,365.25
USA - Anaheim (TPI)	n.a.	239.80	207.68	985.82
USA - San Marcos (AHT)	n.a.	283.14	270.05	581.10
USA - Santa Ana (Axiom)	n.a.	1,448.53	1,227.01	1,849.08
TOTAL	435,281.77	423,682.84	357,050.41	1,510,713.43

## Explanations for Data:

USA - San Marcos (AHT)

USA - Santa Ana (Axiom)

**TOTAL** 

Scope 1 Data Includes: Natural gas, generators & pumps, cooling gases, fire extinguishers, company vehicles

Scope 2 Data Includes: Electricity

Scope 3 Data Includes: Purchased goods and services, fuel and energy related activities not reported under Scope 1-2, upstream transportation and distribution (purchasing), and others

*Turkey İzmit, Indonesia and USA Chattanooga sites' 2019 Scope 1 and Scope 2 emission data are verified by QSI.

*Turkey İzmit, Indonesia and USA Chattanooga sites' 2020 Scope 1 and Scope 2 emission data are verified by PWC.

*Turkey İzmit, Indonesia and USA Chattanooga sites' 2020 Scope 3 emission data is verified by QSI.

CTCE: Composite Technologies Center of Excellence

**n.a.:** data not available

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KORDSA WASTE MANAGEMENT DATA											
Waste By Type (tonnes)		Hazardous Waste	Non- Hazardous Waste	Total Waste	Waste By Disposal Metho (tonnes)	od	Recycle	Landfill	Energy Recovery	Incineration	Total Disposed Waste
	2018	1,293	2,557	3,850	Turkey - İzmit	2018	3,671	1	73	1	3,745
Turkey - İzmit	2019	1,459	2,505	3,964		2019	2,110	2	1,270	2	3,384
	2020	1,483 🗸	2,174 🗸	3,658		2020	1,902 🕢	585 🕔	1,170 🗸	0 •	3,658
	2017	3	6	9		2017	8	0	0	0	9
Turkey - İstanbul	2018	2	6	8	Turkey - İstanbul	2018	8	0	0	0	8
(CTCE)	2019	60	0	60		2019	0	0	0	60	60
	2020	63	9	71		2020	9	11	0	62	82
	2017	925	3,265	4,190		2017	3,648	0	529	12	4,190
Indonesia	2018	1,033	1,988	3,021	to to costs	2018	2,439	0	539	43	3,021
indonesia	2019	858	1,684	2,542	Indonesia	2019	2,084	0	448	10	2,542
	2020	648	1,997 🕔	2,645 🕔		2020	2,184 🗸	0	458	3 •	2,645
	2017	57	1,952	2,009		2017	1,869	134	6	0	2,009
Thailand	2018	50	1,891	1,940	Thailand	2018	1,814	109	17	0	1,940
mananu	2019	37	1,705	1,742	Hallalla	2019	1,612	109	21	0	1,742
	2020	50	1,428	1,478		2020	1,355	92	31	0	1,478
	2017	14	1,116	1,131		2017	1,035	5	90	0	1,131
Brazil	2018	0	1,144	1,144	Brazil	2018	1,085	3	56	0	1,144
DIdZIL	2019	40	1,216	1,256	DI dZIL	2019	1,073	85	98	0	1,256
	2020	0	949	949		2020	824	69	55	0	949

## ENVIRONMENTAL PERFORMANCE INDICATORS

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KORDSA WASTE MANAGEMENT DATA											
Waste By Type (tonnes)		Hazardous Waste	Non- Hazardous Waste	Total Waste	Waste By Disposal Metho (tonnes)	od	Recycle	Landfill	Energy Recovery	Incineration	Total Disposed Waste
	2017	14	6	20		2017	19	0	0	0	20
ABD - Chattanooga	2018	12	5	17	USA - Chattanooga	2018	18	0	0	0	18
ABD - Cilattallooga	2019	1	21	22	OSA - Cilattallooga	2019	21	0	0	1	22
	2020	2 🗸	225 🕢	226 🕖		2020	25 🕢	165 🗸	0 🕢	1 🕢	191 🕔
	2017	171	0	171		2017	171	0	0	0	171
ABD - Laurel Hill	2018	189	0	189	USA - Laurel Hill	2018	189	0	0	0	189
ADD - Lauret mitt	2019	198	0	198	OSA - Lauret mitt	2019	198	0	0	0	198
	2020	1	312	313		2020	268	45	0	0	313
ABD - Quakertown	2018	n.a.	n.a.	n.a.		2018	n.a.	n.a.	n.a.	n.a.	n.a.
(FDI)	2019	0	1,094.52	1,094.52	USA - Quakertown (FDI)	2019	19,38	1,094.52	0	0	1,113.91
( ,	2020	0	1,245.32	1,245.32		2020	32,45	1,245,32	0	0	1,277.77
	2018	n.a.	n.a.	n.a.		2018	n.a.	n.a.	n.a.	n.a.	n.a.
ABD - Anaheim (TPI)	2019	n.a.	n.a.	n.a.	USA - Anaheim (TPI)	2019	n.a.	n.a.	n.a.	n.a.	n.a.
	2020	5	756	761		2020	5	756	0	0	761
ABD - San Marcos	2018			0	USA - San Marcos (AHT)	2018	n.a.	n.a.	n.a.	n.a.	n.a.
(AHT)	2019	3	14	16	osit suitificios (itili)	2019	3	11	0	3	16
	2020	0	13	13		2020	3	10	0	0	13
ABD - Santa Ana	2018	n.a.	n.a.	n.a.	USA - Santa Ana	2018	n.a.	n.a.	n.a.	n.a.	n.a.
(Axiom)	2019	27	1	29	(Axiom)	2019	28	0	0	0	29
	2020	50	497	547		2020	150	277	0	69	497

KORDSA TOTAL GLOBAL WASTE DATA			
Waste By Type (tonnes)	2018	2019	2020
Hazardous Waste	2,578	2,684	2,302
Non-Hazardous Waste	7,591	8,241	9,605
Total Waste	10,169	10,924	11,907
Waste By Disposal Method (tonnes)	2018	2019	2020
Recycle	9,223	7,150	6,758
Landfill	113	1,301	3,256
Energy Recovery	685	1,836	1,715
Incineration	44	76	136
Total Disposed Waste	10,065	10,363	11,865

## Explanations Regarding Data:

2018 data includes all sites except the four new composite sites. 2019 data includes all sites except TPI and 2020 data includes all sites.

*2020 data includes all sites except 1PI and 2020 data
*2020 data is verified by PWC.

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KORDSA WATER MANAGEMEN	Г DATA				
Water Withdrawals (m³)	Years	Fresh Surface Water	Groundwater-Renewable	Third Party Sources	Total Withdrawals
	2018	0	440,297	141,845	582,142
Turkey - İzmit	2019	0	562,784	48,319	611,103
	2020	0 •	522.358 🕢	34,206 🕢	556,564
	2018	0	0	3,081	3,081
Turkey - İstanbul (CTCE)	2019	0	0	4,347	4,347
	2020	0	0	7,799	7,799
	2018	358,599	2,029	0	360,628
Indonesia	2019	350,234	0	0	350,234
	2020	351,733 🕢	0 🕢	0 🕢	351,733 🕔
	2018	0	0	100,593	100,593
Thailand	2019	0	0	102,228	102,228
	2020	0	0	84,162	84,162
	2018	0	102,278	6,332	108,610
Brazil	2019	0	95,566	9,612	105,178
	2020	0	111,243	6,631	117,874
	2018	2,198,009	0	125,363	2,323,373
USA - Chattanooga	2019	2,816,538	0	83,558	2,900,096
	2020	1,683,631 🜒	0 🕢	79,674 🕢	1,763,305 🕔
	2018	0	0	4,232	4,232
USA - Laurel Hill	2019	0	0	4,391	4,391
	2020	0	0	5,860	5,860
USA - Ouakostowa (EDI)	2019	0	0	4,666	4,666
USA - Quakertown (FDI)	2020	0	0	6,677	6,677
USA Apphoim (TDI)	2019	0	0	1,222	1,222
USA - Anaheim (TPI)	2020	0	0	1,315	1,315
USA San Masses (AUT)	2019	0	0	1,826	1,826
USA - San Marcos (AHT)	2020	0	0	4,434	4,434
IICA Capta Ana (Aviera)	2019	0	0	430	430
USA - Santa Ana (Axiom)		2	0	651	653

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KORDSA WATER MANAGEMENT DATA

Water Discharges (m³)	Yıl	Fresh Surface Water	Third-Party Destinations	Other	Total Discharges
	2018	0	313,680	0	313,680
Turkey - İzmit*	2019	0	297,255	0	297,255
	2020	0	295,322	0	295,322
	2018	0	2,773	0	2,773
Turkey - İstanbul (CTCE)	2019	0	3,913	0	3,913
	2020	0	7,019	0	7,019
	2018	51,023	0	0	51,023
Indonesia*	2019	45,625	0	0	45,624
	2020	45,624	0	0	32,048
	2018	0	80,474	0	80,474
Thailand	2019	0	81,782	0	81,782
	2020	0	67,330	0	67,330
	2018	0	32,389	0	32,389
Brazil	2019	0	34,134	0	34,134
	2020	0	28,164	0	28,164
	2018	731,198	815,772	0	1,546,970
USA - Chattanooga*	2019	966,625	1,182,894	0	2,149,518
	2020	734,010	817,209	0	1,551,219
	2018	0	3,762	0	3,762
USA - Laurel Hill	2019	0	2,802	0	2,802
	2020	0	2,442	0	2,442
USA - Quakertown (FDI)	2019	0	4,200	0	4,200
os. Quancitomii (i bi)	2020	0	6,009	0	6,009
USA - Anaheim (TPI)	2019	0	1,222	0	1,222
	2020	0	1,315	0	1,315
USA - San Marcos (AHT)	2019	0	1,643	0	1,643
	2020	0	3,991	0	3,991
USA - Santa Ana (Axiom)	2019	0	387	0	387
OSA Salita Alia (AAlolii)	2020	0	586	0	586

KORDSA WATER MANAGEMENT DATA					
Recycled Water (m³)			2018	2019	2020
Turkey - İzmit	2018 2019 2020	150,830 142,965 145,671	100 427	404 674	104 101
Indonesia	2018 2019 2020	38,607 38,706 38,430	189,437	181,671	184,101

## **Explanations Regarding Data:**

2018 data includes all sites except the four new composite sites.

2019 and 2020 data include all sites.

*2020 data is verified by PWC.



## KEY STAKEHOLDER COMMUNICATION PLATFORMS

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Communication Platforms with Our Key Stakeholders

Stakeholders	Communication Platforms	Objective / Content of Communication	Communication Frequency
- Stakenotters	Sustainability Evaluation Survey	Materiality and Performance	Once a year
	Sustainability Report	Sustainability Performance	Once a year
	Plant newsletters such as the Kordsa Magazine	To announce important developments about the company	Several times a year
	People Clip	To make notifications about the company	Continuous
	E-mails by CEO	To share important developments	As needed
Employees	Yammer	To enhance CEO communication and sharing developments about the Kordsa with employees	As needed
	Intouch	To enhance CEO communication	Three times a year
	All Stars	To select the best projects and most successful activities within the company	Once a year
	Global Leadership Summit (Kordsa GLS)	To review the previous year and share the vision of the next year	Once a year
	Social media	To share news about the company, products, and developments	Continuous
	Sustainability Survey	Sustainability Strategy	Once a year
	Sustainability Report	Sustainability Performance	Once a year
Customers	Reinforcer Magazine	To share developments about the company, sector and technology	Twice a year
	Annual Report	To review the performance of the company in the previous year	Once a year
	Press Section on Website	To announce new developments about the company through press releases	Continuous
	Magazines and Newspapers	To announce new developments about the company through press releases and interviews in both national and international publications	Continuous
	Social Media	To share news about the company, products and developments	Continuous
	E-mailing	To share developments about the company or collaborations exclusive to stakeholders	As needed
	Trade Fairs	To establish contact with existing and new customers	Several times a year
	Earning Calls	To announce mid-year results	Two times a year
Shareholders	General Assembly	To announce annual results	Once a year
	E-mail by request	To convey information on e-mail for those shareholders who request	Several times a year
	Analyst Meeting	To share important developments about the company in a face-to-face meeting with the participation of top management	Once a year
	Newsletters	To announce important developments about the company through the media	Continuous
	TV Programs	To announce important developments about the company	Several times a year
	Magazines and Newspapers	To announce important developments about the company	Several times a year
Investors	Web Site	To announce important information	Continuous
	Public Disclosure Platform	To publish the report of the Capital Markets Board	Four times a year
	Telephone/E-mails	To announce special situations  To respond to investors' request for information about the company	As needed Upon request from the investors
	Social Media	To share news about the company, products and developments	Continuous

## **EMPLOYEE SUSTAINABILITY SURVEY**

<b>Employee Sustainability Survey Performance Section Result</b>	<b>Employee</b>	Sustainability	Survey	Performance	Section	Results
------------------------------------------------------------------	-----------------	----------------	--------	-------------	---------	---------

Employee Sustainability Survey Pertormance Section Results						
Performance Topic	2019 (%)	2020 (%)	Change (%)	No Idea (%)	Comments and Actions	
Manages of business processes in line with corporate governance principles which are transparency, fairness, accountability and responsibility	87	79	-8	5	In the sustainability surveys we have been conducting uninterruptedly since 2015, we have been observing a plus	
Adequacy of policies, trainings and audits on compliance including anti-bribery, anti-corruption and anti-competitive behavior	84	85	+1	3	or minus 1% to 3% change in the general perception. Since those changes were marginal, we did not take a special action on that issue so far.	
Practices efficient use of raw materials	69	68	-1	10	Because of the pandemics experienced in 2020 we had dramatic changes in the way we worked and communicated	
Adequacy of investments and projects to assure energy efficiency	68	66	-2	11	compared to previous years.  We believe, the prominence of corporate governance	
Adequacy of projects and preventive measures to monitor and reduce emissions	65	61	-4	15	perception as the significant area for improvement in this year's survey is particular to this period. Therefore, we will plan an action for this topic after seeing the results of a new	
Adequacy of practices to manage waste and wastewater to prevent environmental pollution	70	67	-3	12	perception check that will be carried out in an upcoming period where we are acclimatized to the new normal if it	
Adequacy of practices to manage and efficiently use water resources	64	66	+2	14	dictates so.  We think that our employees in general may not have an	
Adequacy of measures sufficient to oversee and secure health and safety of its employees	87	86	-1	1	idea about the social and environmental audits regarding the suppliers. Those who replied "no idea" form 11% of the total.	
Significancy of economic value creation for its key stakeholders	81	79	-2	6	In 2020 we carried out all trainings and other meetings via online platforms. In parallel to this, the length of the trainings we provided to our employees got shorter.	
Adequacy of policies, trainings and audits on human rights concerning its suppliers' operations	79	72	-7	11	The most important action that we will take in the light of these results is to increase the internal communication on	
Adequacy of policies, trainings and audits on human rights in its locations	84	81	-4	6	sustainability works that are carried out across the company and the successes gained and encouraging our employees to	
Adequacy of employee communication channels to share their ideas and opinions with the management	78	78	0	2	take part in these efforts.	
Adequacy of personal development and training programs provided for its employees	70	65	-5	3		
Adequacy of recruitment, placement and waging practices to support equal opportunities for women & men, and employee diversity	76	74	-2	3		
Adequacy of social development investments for the local community	71	67	-4	8		

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## **OHS COMMITTEES**

Name of Committee

Management-Worker Health and Safety Committees

Definition



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OHS Committee	Official meeting of the representatives of the employer and employees. All legal decisions are made by this committee.	Legally required	Employer representatives, union representatives, managers, subcontractor representatives
Emergency Response Team	Organized for all shifts in the plant.	Legally required	Blue and white-collar employees
Electrical Safety Committee	Lays down all rules and standards on electricity hazards in the plant; makes inspections and provides training.	Company initiative	Mostly white-collar and also blue-collar employees
Process Safety Management	Carries out activities and inspections for explosions, fires, leaks and occupational accidents that may arise from the production process. Have annual targets.	Company initiative	White-collar employees
Hazardous Chemicals Committee	Identifies hazards wherever chemicals are used, conducts risk analyses, sets safety markings properly and provides trainings on chemical hazards.	Company initiative	White and blue-collar employees
Ergonomics Committee	Oversees the identification of ergonomic risks and improvement works.	Company initiative	White-collar employees
Occupational Health & Safety Management Committee	Works to improve OHS performance, disseminate OHS culture, manage improvement and development activities, and review performance.	Company initiative	All department managers and representatives, and Operations Director as Chairman
SHE TPM Committee	Oversees the work on developing SHE consciousness and culture and performance improvement.	Company initiative	White and blue-collar employees

Legal / Voluntary

**Participants** 

## **MEMBERSHIPS**

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## CEO in Management of Memberships (Turkey)

DEİK Foreign Economic Relations Board / Member of General Board

DEİK Turkey - USA Business Council / Member of Executive Council

DEİK Turkey - Indonesia Business Council / Member of Executive Council

DEİK Turkey - Thailand Business Council / Member of Executive Council

## Other ELT Members in Management of Memberships (Turkey)

DEİK Turkey - Brazil Business Council / Member of Executive Council

TURKCHAM - Turkish Chamber of Commerce / Board Member - Indonesia

## **TURKEY**

ACC Legal Consultants Association

Equality at Work Platform

iSO Istanbul Chamber of Industry

**iTO** Istanbul Chamber of Commerce

İTKİB The General Secretariat of Istanbul Textile & Apparel Exporter's Associations

İTHİB Turkish Textile Employer's Associations

KALDER Quality Association

**Rubber Association** 

KİD Corporate Communication Professionals Society

Kocaeli Chamber of Industry

Kocaeli Chamber of Commerce

Turkish Composites Manufacturers Association

LES Turkey Technology and License Executives Society

PERYÖN Personnel Management Association of Turkey

SAHA Istanbul - Defense, Aviation and Space Cluster

TBCSD Turkish Business Council of Sustainable Development

TIDE The Institute of Internal Auditing Turkey

TMMOB Turkish Chamber of Mechanical Engineers

TTSiS Turkish Textile Industry Employers' Union

TÜSİAD Turkish Industry & Businessmen Association

TÜYİD Turkish Investor Relations Society

**UN Global Compact** 

## INDONESIA

AmCham Indonesia American Chamber of Commerce in Indonesia

APINDO The Employers' Association of Indonesia

HIBERKIBRA - Neighborhood Corporate Association

Indonesian Public Listed Companies Association

Indonesian Corporate Secretary Association

## **THAILAND**

AEO Thai Authorized Economic Operator Importer & Exporter Association

FTI The Federation of Thai Industries

TNSC The Thai National Shippers' Council

DFT Department of Foreign Trade, Ministry of Commerce

Ayutthaya Personnel Management Group

## **BRAZIL**

Bahia's Spinning and Weaving industries Union

COFIC - Industrial Foment Committee of Camaçari

FIEB/CIEB

ABRAFAS - Brazilian Association of Producers of Artificial and Synthetic Fibers

American Chamber of Commerce

## **USA**

AFMA - American Fibers Manufacturers Association

ISIFM - International Society of Industrial Fabric Manufacturers

Turkish American Coalition

LBG Scotland County Chamber of Commerce

## **UNGC CONTENT INDEX**



Human Rights	<b>Principle 1:</b> Businesses should support and respect the protection of internationally proclaimed human rights.	Supply Chain Management
	<b>Principle 2:</b> Businesses should make sure that they are not complicit in human rights abuses.	Supply Chain Management
Labor	<b>Principle 3:</b> Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining.	<u>Human Rights</u>
	<b>Principle 4:</b> Businesses should uphold the elimination of all forms of forced and compulsory labor.	<u>Human Rights</u>
	Principle 5: Businesses should uphold the effective abolition of child labor.	<u>Human Rights</u>
	<b>Principle 6:</b> Businesses should uphold the elimination of discrimination in respect of employment and occupation.	Gender Equality
Environment	<b>Principle 7:</b> Businesses should support a precautionary approach and environmental challenges;	Responsible Consumption and Production
	<b>Principle 8:</b> Businesses should undertake initiatives to promote greater environmental responsibility.	Responsible Consumption and Production
	<b>Principle 9:</b> Businesses should encourage the development and diffusion of environmentally friendly technologies.	Industry, Innovation and Infrastructure
Anti- Corruption	<b>Principle 10:</b> Businesses should work against corruption in all its forms, including extortion and bribery.	Business Ethics

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## **GRI CONTENT INDEX**





For the Materiality Disclosures Service, GRI Services reviewed that the GRI content index is clearly presented and the references for Disclosures 102-40 to 102-49 align with appropriate sections in the body of the report. The service was performed on the Turkish version of the report.

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102-3	Location of headquarters	Page 118		102-42	102-42 Identifying and selecting stakeholders
102-4	Location of operations	Page 11		102-43	102-43 Approach to stakeholder engagement
102-5	Ownership and legal form	Corporation		102-44	102-44 Key topics and concerns raised
102-6	Markets served	Page 10-11			REPORTING PRACTICE
102-7	Scale of the organization	Page 9		102-45	102-45 Entities included in the consolidated financial statements
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02-9	Supply chain	Page 71		102-47	102-47 List of material topics
)2-10	Significant changes to the organization and its supply chain	No significant changes	1	102-48	102-48 Restatements of information
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102-15	Key impacts, risks, and opportunities	Page 19-21	102-54	Cl	laims of reporting in accordance with the GRI Standards
	ETHICS AND INTEGRITY		102-55		GRI content index
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102-17	Mechanisms for advice and concerns about ethics	Page 17-18			
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2016	103-3 Evaluation of the management approach	Page 69-70
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Performance 2016	201-4 Financial assistance received from government	Page 89
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GRI 103 MANAGEMENT	103-1 Explanation of the material topics and its boundary	Page 38
APPROACH DISCLOSURES	<b>103-2</b> The management approach and its components	Page 17-18
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## KORDSA 2020 REPORTING GUIDANCE

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## Kordsa 2020 Sustainability Report - Reporting Guidance

This reporting guidance ("Guidance") provides information on the data preparation and reporting methodologies of indicators within the scope of the independent audit in the 2020 Kordsa Sustainability Report. Indicators within the scope of the audit include data from Turkey-Izmit, Indonesia and U.S.-Chattanooga locations, unless otherwise stated. The indicators include **social indicators** (number of employees by gender, gender distribution of employees in managing bodies (manager and higher level), employee turnover rate, number of employees given ethics training, occupational health and safety (OHS) training hours, training hours, occupational health and safety) and **environmental indicators** (energy consumption, water withdrawal, waste management, re-used material rate, scope 1 and 2 emissions). It is the responsibility of the Company's management to ensure that appropriate procedures are in place to prepare the indicators mentioned above in line with, in all material respects, the Guidance.

The data included in this guideline is for the FY 20 (1 January – 31 December 2020), fiscal year ended December 31, 2020, and as detailed in the "Key Definitions and Reporting Scope" section comprises only the relevant operations in Turkey and in the World that are the responsibility of the Company by excluding information about group companies, affiliates, and subcontractors.

## **General Reporting Principles**

In preparing this guidance document, consideration has been given to following principles:

- Information Preparation to highlight to users of the information the primary principles of relevance and reliability of information; and
- Information Reporting to highlight the primary principles of comparability / consistency with other data including prior year and understandability / transparency providing clarity to users.

## **Key Definitions and Reporting Scope**

For the purpose of this report, the Company defines:

Туре	Type Indicator Scope		
	Number of Employees by Gender	This indicator reflects the total number of employees and gender distribution of employees of the Company during the reporting period. This indicator covers all global locations of Kordsa.	
Social	Gender Distribution of Employees in Managing Bodies (Manager and Higher Level)	This indicator reflects the distribution of employees of the Company in managing bodies (manager and higher level) by gender. Managing bodies are categorized as senior management (ELT), director, manager, engineers and experts, supervisor, officer (white collar), operator and technician at Kordsa. This indicator covers all global locations of Kordsa.	
	Employee Turnover Rate	This indicator reflects the ratio of resignation and termination of employment to the total number of employees in the reporting period. This indicator covers all global locations of Kordsa.	
Indicators	Number of Employees Given Ethics Training	This indicator reflects the number of employees who received business ethics training in the reporting period. This indicator covers all global locations of Kordsa.	
	Training Hours	This indicator reflects the total duration of the training given to the Company employees during the reporting period. Trainings reported in 4 main categories as: Professional Development, Personal Development, Occupational Health and Safety, and Other Trainings. This indicator covers all global locations of Kordsa.	
	Occupational Health and Safety	This indicator reflects fatal accidents, accidents of high importance (excluding fatal accidents and registered accidents), recorded accidents and total working hours of the reporting period for both Kordsa and sub-conrtractor employees.	
	Energy Consumption	This indicator reflects the amount of energy directly and indirectly consumed during the Company's operations at locations within the scope of the audit (Turkey-Izmit, Indonesia, U.SChattanooga), during the reporting period.	
	Electricity Consumption (kWh)	This indicator reflects the total purchased electricity consumption used for air conditioning, lighting, electrical equipment uses and other business operations that require electricity at the relevant locations of the Company during the reporting period.	
	Natural Gas Consumption (m3)	This indicator means the total purchased natural gas (volume - m3) consumption used for heating, cooking and other business operations that require natural gas at the relevant locations of the Company during the reporting period.	
	LPG Consumption (gallon)	This indicator reflects the total amount of LPG (volume - gallon) purchased and used in the relevant locations during the reporting period.	
	Diesel Consumption (l)	This indicator reflects the total purchased diesel (volume - l) consumption used for generators and company-owned cars at the relevant locations of the Company during the reporting period.	
	Gasoline Consumption (I)	This indicator reflects the total purchased gasoline (volume - l) consumption used for company-owned cars at all the relevant locations of the Company during the reporting period.	
nvironmental Indicators	Other Environmental Performance Data		
	Water Withdrawal (m³)	This indicator reflects the total water withdrawal (volume- m3) at the relevant locations of the Company during the reporting period.	
	Waste Management (ton)	This indicator reflects the total waste (by weight – ton) according to the type and disposal method where the Company operates, at the relevant locations of the Company during the reporting period.	
	Re-Used Material Rate	It reflects the rate of materials reused at the relevant locations of the Company during the reporting period.	
	Scope 1 and 2 Emissions (Ton CO ₂ -e)		
	Scope 1	This indicator means the emission of greenhouse gases due to the use of natural gas, LPG, diesel, gasoline consumption and refrigerants and fire extinguishers at the relevant locations of the Company during the reporting period.	
	Scope 2	This indicator means the emission of greenhouse gases due to the use of purchased electricity at the relevant locations of the Company during the reporting period.	

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## KORDSA 2020 REPORTING GUIDANCE

## DATA PREPARATION

## **Social Indicators**

## **Employee Turnover Rate**

The following formula is used to calculate the employee turnover rate. The average number of employees in the reporting period is taken into account when calculating the total employee hours.

Employee Turnover Rate: Total Number of Employees Resigned and Employment Contract Terminated / Total Number of Personnel * 100

## Occupational Health and Safety (OHS) Indicators

The following definitions and formulas are used in the calculation of OHS data. The average number of employees in the reporting period is taken into account when calculating the total employee hours.

Major accidents (excluding fatal accidents and registered accidents): Registered accidents resulting in permanent disability or amputation

Registered occupational accidents: Total of the accidents classified as Lost Workday Case (LWC), Medical Treatment Case (MTC), and Restricted Workday Case (RWC)

Lost Workday Case (LWC): When the worker cannot return to work the first workday following an occupational accident resulting in injury,

Medical Treatment Case (MTC): When an accident occurs that require medical treatment and the injured person can return to work the first workday following injury,

Restricted Workday Case (RWC): When the injured can return to work the first workday after injury, but is asked to work on another task, as he cannot perform his/her regular task.

## Formulas:

Number of Registered Work Accidents: Number of accidents with lost workday + Number of accidents requiring medical treatment + Number of accidents causing restricted work

Rate of fatalities as a result of work-related injury: (Number of fatalities as a result of work-related injury / Total working hours) x 200,000

Rate of high-consequence work-related injuries (excluding accidents resulting fatalities and registered accidents): (Number of high-consequence work-related injuries (excluding accidents resulting fatalities and registered accidents) / Total working hours) x 200,000

Rate of recorded work-related injuries: (Number of recorded work-related injuries / Total working hours))  $\times$  200,000

## **Environmental Indicators**

## **Energy Consumption**

Energy consumption data are reported for electricity and primary fuel sources, which comprise natural gas, LPG, diesel, and gasoline.

Electricity and natural gas consumption data are obtained from supplier meters and service provider invoices. LPG and diesel consumption for the use of generators and company owned vehicles are obtained from service provider invoices. Gasoline consumption for the use of company owned cars data are obtained from service provider invoices.

Since common area consumption is also included in the total amount in invoices shared for Turkey-İzmit electricity consumption, common area consumption is excluded from Kordsa electricity consumption.

In the invoices shared for the electricity consumption of U.S.-Chattanooga, electricity consumption of other businesses is excluded from Kordsa electricity consumption, since there are businesses other than Kordsa in the location.

In Turkey-İzmit location, since vehicle fuel consumption is mainly diesel fuel, all vehicle fuels used are calculated as diesel fuel.

The Company has used the following published conversion factors:

- In Indonesia, since the diesel supply unit is reported in gallons, the conversion factor of [1 gallon * (3.7854) * liter / gallon] is used for conversion to liters.
- In Indonesia, since the refrigerant weight unit is reported in pounds, the conversion factor of [1 lb. * (0.4536) * kg / lb.] is used in the conversion into kg.
- At Chattanooga (US), since diesel and gasoline supply units are reported in gallons, the conversion factor of [1 gallon * (3.7854) * liter / gallon] is used for conversion to liters.
- At the Chattanooga (US), since the refrigerant weight unit is reported in pounds, the conversion factor of [1 lb. * (0.4536) * kg / lb] is used in the conversion into kg.

## Other Environmental Performance Data

The water withdrawal within the scope of other environmental performance data includes groundwater and mains water in Turkey-İzmit, surface water in Indonesia, surface water and mains water in U.S.-Chattanooga.

## Scope 1 and 2 Emissions

Scope 1 and scope 2 carbon emissions are calculated in accordance with ISO 14064-1 and with the operational control principle within the framework of the "GHG Protocol Corporate Accounting and Reporting Standard".

CO2 equivalent factors for emissions  $CO_2$ ,  $CH_4$ ,  $N_2O$ , and HFCs (refrigerant gas) were used in calculations. The emission factors used are detailed in the table below. The Global Warming Potential (GWP) coefficients were taken from "DEFRA (Department for Environment, Food and Rural Affairs) 2020 Emission Factors" published by UK Government (https://www.gov.uk/government/publications/greenhouse-gasreporting-conversion-factors-2020). The electrical energy emissions consumed from the grid are calculated using the  $CO_2$  emission factors published by the International Energy Agency in 2019 for the relevant locations.



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Emission Factors - Scope 1	CO ₂	CH ₄	N₂O	Total ton CO ₂ -e
Diesel (kg/lt)	2.65242	0.00025	0.03520	2.68787
Gasoline (kg/lt)	2.30176	0.00680	0.00611	2.31467
Natural Gas (kg/m3)	2.02640	0.00271	0.00107	2.03017
LPG (kg/lt)	1.55325	0.00113	0.00099	1.55537
Refrigerant gases - R22	1.760			1.760
Refrigerant gases – R32	677			677
Refrigerant gases – R134A	1.300			1.300
Refrigerant gases - R407C	1.624			1.624
Refrigerant gases – R410A	1.923			1.923

Emission Factors – Scope 2 (kg/kWh)	kgCO _{2-e} /kWh
Electricity (renewables)	0.0000
Turkey Electrical energy (grid)	0.461
Indonesia Electrical energy (grid)	0.769
US Electrical energy (grid)	0.421

## Restatement

The measuring and reporting of sustainability-related data inevitably involves a degree of estimation. Restatements are considered where there is a change in the data of greater than 5 percent at the Company level.



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## KORDSA 2020 EXTERNAL ASSURANCE REPORT



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## Limited Assurance Report To the Board of Directors of Kordsa Teknik Tekstil A.S.

We have been engaged by the Board of Directors of Kordsa Teknik Tekstil A.S. ("Kordsa" or the "Company") to perform an independent limited assurance engagement in respect of the Selected Sustainability Information ("Selected Information") stated in the Kordsa Sustainability Report 2020 ("the 2020 sustainability report") for the year ended 31 December 2020 and listed below.

### Selected Information

The scope of the Selected Information for the year ended 31 December 2020, which is subject to our independent limited assurance work, set out in the 17, 90, 91, 92, 93, 95, 96, 97, 99, 100 ve 101. pages of the 2020 sustainability report with the sign  $\odot$  is summarised below:

- Employees by Gender
- Employees by Management Category and Gender
- Employee Turnover Rate
- Total Training Hours
  - o Career Development
  - Personal Development
  - Health, Safety and Environment
  - o Other
- · Occupational health and Safety
- Reused Materials
- Energy consumption
  - Electricity Consumption (kWh)
  - a Natural Gas Consumption (m3)
  - LPG Consumption (gallon)
  - Diesel Consumption (I)
  - o Gas Consumption (1)
- Waste Management
  - Waste by Type
     Waste by Disposal Method
- Water Withdrawuls

Our assurance was with respect to the year ended 31 December 2020 information only and we have not performed any procedures with respect to earlier periods, any information other than Selected Information marked with in the 2020 Sustainability Report, any other elements included in the 2020 Sustainability Report and, therefore, do not express any conclusion thereon.

PwC Balganist Denetim ve Serbest Mahasebeci Mali Mispoiri M. 43.

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Mersts Numerums; -0.1466-0224-0500013

### Criteria

The criteria used by the Company to prepare the Selected Information is set out in section 'Kordsa 2020 Reporting Guidance' (the 'Reporting Guidance') on pages 111 - 113 of the 2020 Sustainability Report.

### The Company's Responsibility

The Company is responsible for the content of the Sustainability Report and the preparation of the Selected Information in accordance with the Reporting Guidance. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation of Selected Information that is free from material misstatement, whether due to fraud or error.

### Inherent Limitations

Non-financial performance information is subject to more inherent limitations than financial information, given the characteristics of the subject matter and the methods used for determining such information. The absence of a significant body of established practice on which to draw to evaluate and measure non-financial information allows for different, but acceptable, measures and measurement techniques and can affect comparability between entities. The precision of different measurement echniques may also vary. Furthermore, the nature and methods used to determine such information, as well as the measurement criteria and the precision thereof, may change over time. It is important to read the Selected Information in the context of the Reporting Guidance.

In particular, for carbon emissions from energy used is based upon, inter alia, information and factors generated internally and/or derived by independent third parties as explained in the Reporting Guidance. Our assurance work has not included examination of the derivation of those factors and other third-party information.

### Our Independence and Quality Control

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.

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

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## KORDSA 2020 EXTERNAL ASSURANCE REPORT





## Our Responsibility

Our responsibility is to form a conclusion, based on limited assurance procedures, on whether anything has come to our attention that causes us to believe that the Selected Information has not been properly prepared in all material respects in accordance with the Reporting Guidance. We conducted our limited assurance engagement in accordance with International Standard on Assurance Engagements 3000 (Revised), Assurance Engagements other than Audits or Reviews of Historical Financial Information', and, in respect of greenhouse gas emissions, International Standard on Assurance Engagements 3410, Assurance Engagements on Greenhouse Gas Statements, issued by the International Auditing and Assurance Standards Board.

A limited assurance engagement is substantially less in scope than a reasonable assurance engagement under ISAE 3000 and ISAE 3410. Consequently, the nature, timing and extent of procedures for gathering sufficient appropriate evidence are deliberately limited relative to a reasonable assurance engagement.

The procedures we performed were based on our professional judgment and included inquiries, observation of processes performed, inspection of documents, analytical procedures, evaluating the appropriateness of quantification methods and reporting policies, and agreeing or reconciling with underlying records.

Given the circumstances of the engagement, in performing the procedures listed above we:

- Made inquiries of the persons responsible for the Selected Information;
- Understood the process for collecting and reporting the Selected Information. This included analysing the key processes and controls for managing and reporting the Selected Information;
- Evaluated the source data used to prepare the Selected Information and re-performed selected examples of calculation;
- Performed limited substantive testing on a selective basis of the preparation and collation of the Selected Information prepared by the Company and;
- Undertook analytical procedures over the reported data.



### Limited Assurance Conclusion

Based on the procedures we have performed and the evidence we have obtained, nothing has come to our attention that causes us to believe that the Company's Selected Information for the year ended 31 December 2020, is not properly prepared, in all material respects, in accordance with the Reporting Guidance.

This report, including the conclusion, has been prepared for the Directors of the Company as a body, to assist the Directors in reporting Kordsa Teknik Tekstil A.Ş.'s performance and activities related to the Selected Information. We permit the disclosure of this report within the 2020 Sustainability Report for the year ended 3s December 2020, to enable the Directors to demonstrate they have discharged their governance responsibilities by commissioning a limited assurance report in connection with the Selected Information. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the Directors of Kordsa Teknik Tekstil A.Ş. as a body and Kordsa Teknik Tekstil A.Ş. for our work or this report save where terms are expressly agreed and with our prior consent in writing.

PwC Bağımsız Denetim ve Serbest Muhasebeci Mali Müşavirlik A.Ş.

Cenk Uslu, SMMM Partner

Istanbul, 6 August 2021

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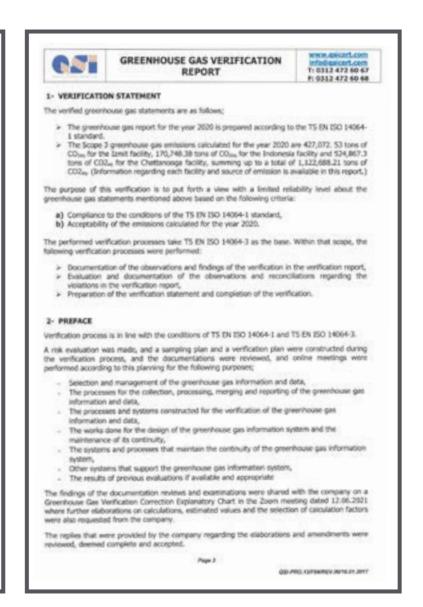
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## KORDSA 2020 SCOPE 3 GHG VERIFICATION REPORT AND CERTIFICATE









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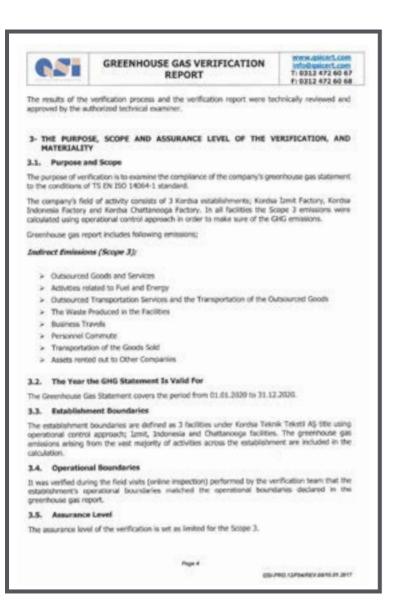
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KORDSA SUSTAINABILITY REPORT 2020

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## **DISCLAIMER**

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The information and analyses contained in the KORDSA sustainability report (hereinafter "report") have been compiled from resources and information deemed as accurate and reliable within the timeframe the report was prepared for informative purposes only, and not to be used as a basis for any investment decision.

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The company, its managers, employees, and other persons and organizations who contributed to the drafting of this report cannot be held responsible for the damages that may arise from the use of the information contained herein. All rights of this report belong to KORDSA.

Our report is prepared in the digital environment and is not published.



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