

SHAPING THE FUTURE WITH SUSTAINABLE CONNECTIONS

Sustainability Report **2024**

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ABOUT THE REPORT

About the Report

Er-Bakır Elektrolitik Bakır Mamulleri A.Ş 2024 Sustainability Report has been prepared to transparently share with stakeholders the sustainability activities, strategic approaches, and vision for a sustainable future carried out throughout the year. In the following sections of the report, the company will be referred to as Er-Bakır.

Reporting Scope

The environmental, social, and governance information presented in the report covers the 12-month period from 01.01.2024 to 31.12.2024. The content is based on data related to Er-Bakır's production facility in Denizli and its activities. To ensure measurability and comparability, some sections also include available data from the last three years.

Reporting Principles and Standards

The report has been prepared based on the Global Reporting Initiative (GRI) Standards, and its content has been prepared in line with the indicators included in these standards. In addition, Er-Bakır's contributions in the field of sustainability are detailed in line with the Task Force on Climate-related Financial Disclosures (TCFD) methodology and the United Nations Sustainable Development Goals (SDGs).

Publication Date and Contact Information

This report is published annually.

For more information about our sustainability report, please contact us at sustainability@erbakir.com.tr or https://www.erbakir.com.tr/en. We would be happy to hear your feedback and suggestions.

Note on Language

This report is originally prepared in Turkish.
In case of any discrepancies between the Turkish and English versions, the Turkish version shall prevail.



Message from the General Manager

Dear Stakeholders,

2024 was a period characterised by heightened uncertainty in the global economy. Key megatrends, including climate change and digital transformation, were redefining the business landscape. Fluctuations in energy markets, raw material prices, geopolitical developments, and new regulations in the field of sustainability have had a profound impact on global supply chains. In particular, the European Union's Green Deal and Border Carbon Adjustment Mechanism (CBAM) have created significant challenges for businesses.

Regulations such as the Carbon Border Adjustment Mechanism (CBAM) have encouraged our sector to transition to low-carbon and responsible production models. In this global transformation process, the copper industry has become strategically important. A strong growth in copper demand is anticipated, driven by increasing investments in renewable energy, electric vehicles, and digitalisation-focused infrastructure. However, it is predicted that existing copper reserves will struggle to meet this demand by 2030. This situation brings new responsibilities for our sector. As Er-Bakır, our objective in this new era is twofold: to produce and to play an active role in building the low-carbon and sustainable economy of the future.

In 2024, we built our company's strategic priorities around three main axes: sustainability, innovation, and global competitiveness.

In terms of sustainability, we have made significant progress by implementing measures to enhance energy efficiency, manage waste effectively, conserve water resources and reduce carbon emissions. In order to provide a transparent demonstration of our environmental performance, we have reported on international platforms. We have achieved a B-rating in the Climate category and a C-rating in the Water category in CDP assessments, which marks an important milestone in our journey towards compliance with global sustainability standards.

Our ongoing innovation and R&D efforts have enabled us to develop high-value-added products. We have consolidated our position as one of Europe's leading suppliers of copper alloys used in high-speed rail lines, contributing to our country's technology-driven growth targets.

In line with our global growth strategy, we have expanded our international operations network with our CN WIRE facility, which has commenced operations in the US state of New Mexico. This development has enabled us to export to 56 countries. This investment represents a pivotal element in Er-Bakır's comprehensive global sustainable growth strategy.

In order to enhance sustainability within our supply chain, we have refined our supplier evaluation and development processes. Our objective is to promote a culture of sustainability across our entire value chain by establishing long-term, trust-based partnerships that comply with environmental and social criteria.

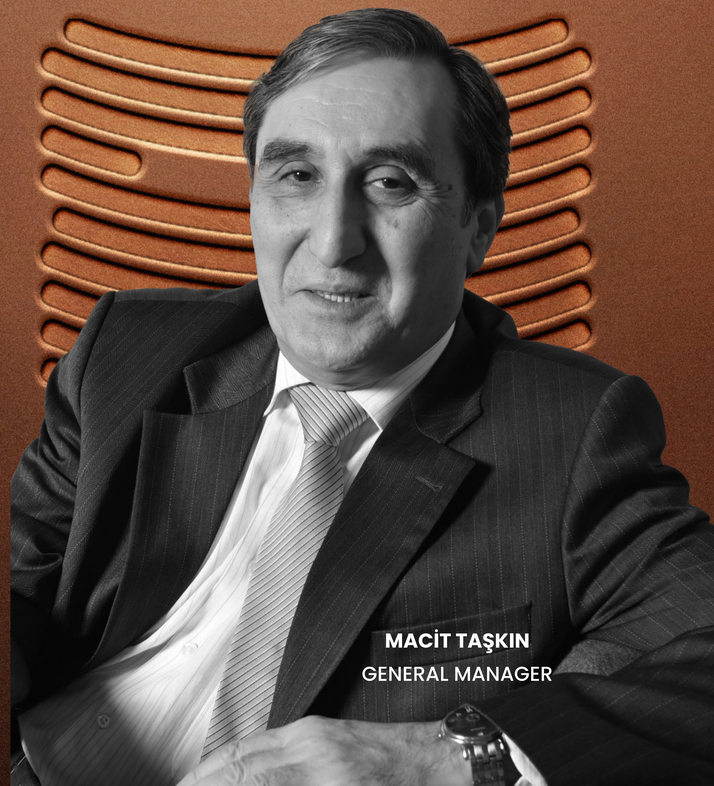
Social contribution is one of Er-Bakır's core values. We are committed to contributing to increasing social welfare through our investments in education, social responsibility, and local development projects. The achievements of Er-Bakır Science High School students are a source of great pride for us.

These achievements are the result of the hard work and commitment of our 854 employees and the trust of our stakeholders. Our human resources programmes are designed to support the development and motivation of our employees, with the aim of creating a talent pool for the future.

Over the next period, we will continue to develop our sustainability practices and strengthen our existing business models in line with the principles of the circular economy. We will also maintain a responsible, transparent and traceable management approach throughout the value chain.

I would like to thank all our employees, business partners and stakeholders who have contributed to realising our company's sustainability vision. I hope this report will serve as a strong roadmap for the future.

Sincerely,



MACİT TAŞKIN
GENERAL MANAGER

CORPORATE PROFILE

Industry Outlook

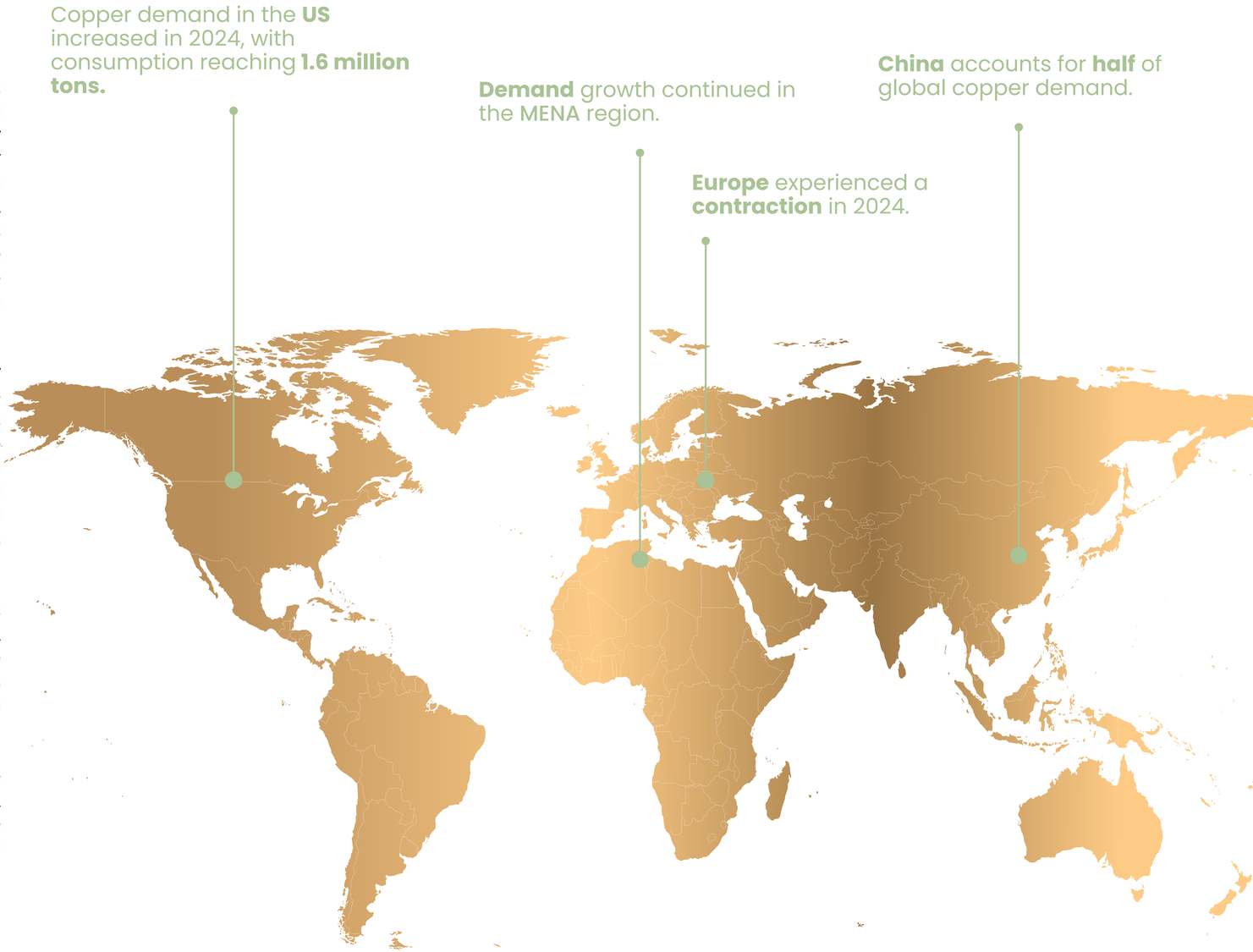
Global Supply and Demand Balance

Copper is one of the most critical raw materials in modern industry and is widely used in the energy, automotive, construction, electronics, and communications sectors. According to Copper Market Forecasts published by the Istanbul Mineral Exporters Association (IMMIB), global refined copper production reached approximately 27 million tons in 2024, while consumption reached 27.1 million tons, resulting in a balanced market. In the long term, renewable energy investments, electric vehicles, and digitalization projects are expected to continue to increase global copper demand. An average electric vehicle contains approximately 80 kg of copper, while a wind turbine contains approximately 4 tons. These figures further reinforce the strategic importance of copper in the transition to a low-carbon economy.

The Asia-Pacific region is the center of global copper demand, thanks mainly to China's high consumption. China alone accounts for about half of the world's copper demand, with India, Japan, and South Korea supporting this growth with increasing industrial investments. The region plays a decisive role in the global value chain with both its production and recycling capacity. In Europe, copper demand contracted in 2024 due to economic slowdown and high energy costs. However, wind and solar energy projects and grid modernization efforts in line with the European Union's Green Deal targets support long-term copper consumption.

The US remains a net importer of copper. In 2024, approximately 1.6 million tons of copper were consumed, with about half of this amount being imported. Federal infrastructure investments and incentives for electric vehicles have increased copper demand. For this reason, the US administration has designated copper as a critical mineral, making supply security a strategic priority.

Electricity infrastructure investments and industrialization steps in the Middle East and North Africa (MENA) have continued to increase copper demand. However, the region remains a net importer. Türkiye has emerged as the largest copper user in this region and has become the leader in the regional market.



Türkiye's Consumption and Production Profile

Türkiye ranked first in the MENA region in 2024 with approximately 491,000 tons of copper consumption. The majority of domestic demand came from the cable, automotive supply, white goods, and electronics sectors. However, Türkiye's annual refined copper production capacity remained at only 131,000 tons, and most of its raw material needs were met through imports. Despite this, Türkiye maintained its position as a strong producer and exporter of semi-finished and finished products.

According to DENİB Copper-Wire-Cable Enameled Wire Sector Data, Türkiye's copper wire and cable exports reached USD 1.44 billion in 2024, maintaining its global competitiveness in this field. Türkiye plays a strategic role in the global copper value chain, particularly due to its proximity to the European market and its logistical advantages.

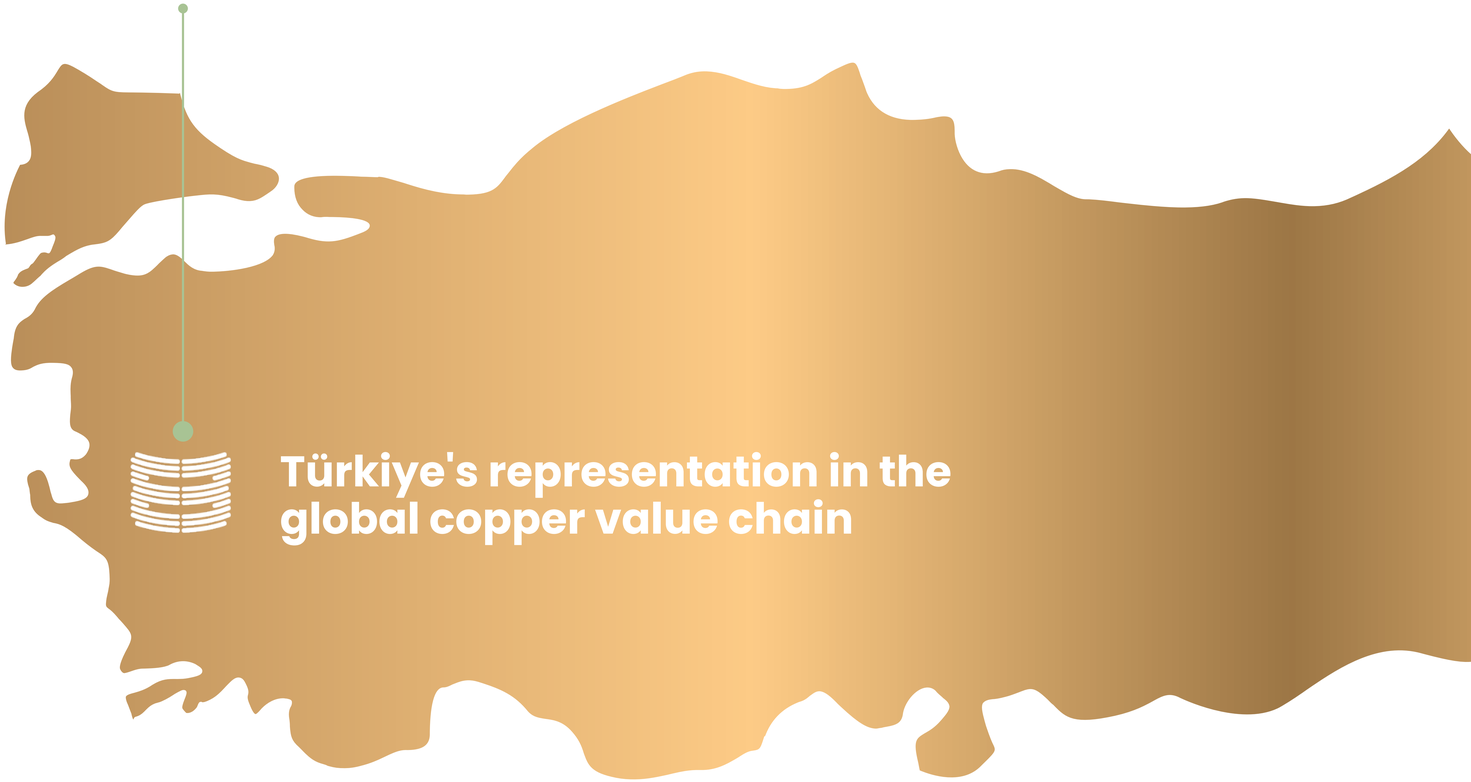
Leader in the MENA region with **491 thousand tons** of copper consumption

131,000 tons of refined copper production capacity

1.44 billion USD copper wire and cable exports

Er-Bakır's Position

Er-Bakır has maintained its leadership in the sector as one of Türkiye's largest copper producers. Er-Bakır has maintained its export strength despite global fluctuations and has sustained its competitive advantage thanks to product diversity and market flexibility. The company continues to increase Türkiye's representation in the global copper value chain through its investments in sustainable production practices and low-carbon technologies.



About Er-Bakır

Er-Bakır Electrolytic Copper Products Inc. was founded in Denizli in 1981 and has become one of Türkiye's leading companies in the copper sector. Production activities are carried out on a total area of **200,000 m²**, 70,000 m² of which is covered, and copper and copper alloy products are manufactured to high quality standards in facilities equipped with modern technology.

The company's product portfolio consists of copper, copper alloys, and conductors, which are used in strategically important sectors such as energy, telecommunications, automotive, medical, defense industry, aerospace, rail transportation systems, and renewable energy. It meets the needs of areas critical to the continuity of modern life and strengthens its position as a reliable supplier.

Er-Bakır's production capacity has an impact not only domestically but also on a global scale. Products are exported to more than **50 countries across 6 continents,** and the company has become a globally recognized brand with its superior quality and service approach. It has consistently ranked among the top companies **in the list of Türkiye's 500 Largest Industrial Organizations** published by the Istanbul Chamber of Industry, securing **40th place** in 2024 and solidifying its leadership in the sector.

In line with its international growth strategies, the company operates a global production facility in Santa Teresa, New Mexico, through its subsidiary C.N. Wire Corporation, established in the USA. This facility serves all markets in the wire and cable industry, producing bare and tinned copper wires, as well as special copper wires used in **high-tech projects such as those for NASA**.

The company consistently shapes its activities through investments in technological innovation, continuous improvement, and sustainability. In line with its future vision, it aims to increase its effectiveness both in Türkiye and in global markets, based on the balanced management of economic growth as well as environmental and social responsibilities.

Er-Bakır has diversified its investments through subsidiaries to strengthen its national and international activities and support its strategic growth targets.



Arenko Elektrik Üretim A.Ş., which began production using fuel oil in 2001 and switched to natural gas in 2006, joined the Er-Bakır group of companies in 2007. The company not only meets Er-Bakır's steam and electricity needs but also sells electricity to the market under its "Electricity Production License."

C.N. Wire Corporation (USA), was established in 1998 to increase the effectiveness of Er-Bakır products in the US market. Operating in Santa Teresa, New Mexico, the company meets customer demand for short-term and just-in-time delivery by maintaining stocks of copper conductors in strategic locations. Known for its high quality and reliable service, C.N. Wire supports Er-Bakır's global growth strategy with its strong performance in the US market.

Başak Metal Ticaret ve Sanayi A.Ş., was established in 1993 and operates in Denizli. The company's main area of activity is the marketing and export of metals, textiles, and chemicals, primarily Er-Bakır's products, abroad. Today, exports are made to more than 50 countries.



Mission, Vision and Corporate Values

MISSION

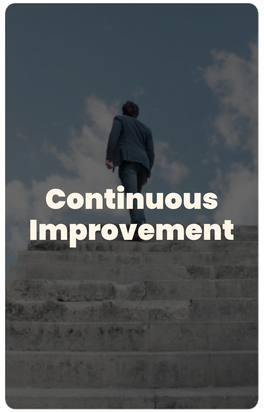
To create value for stakeholders by providing quality products and services to sectors using copper conductors worldwide through the implementation of modern management systems.

VISION

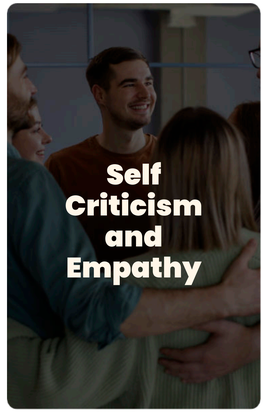
To become a leader in innovative, pioneering, and preferred target products and markets in the global conductive and related sectors within 10 years.

CORPORATE VALUES

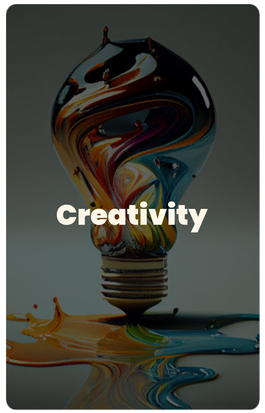


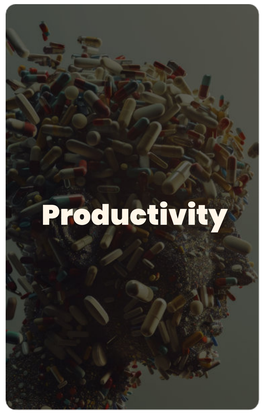


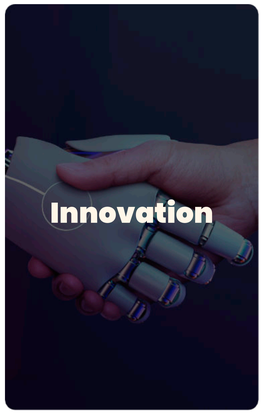




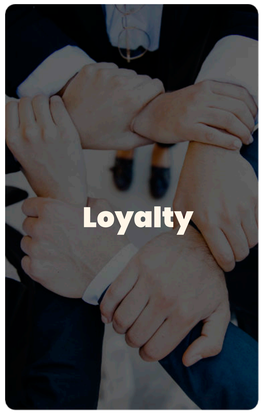


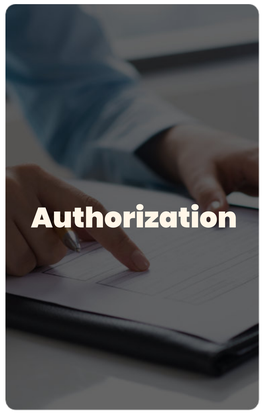


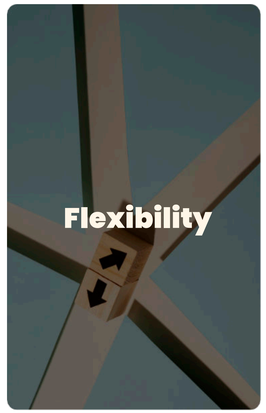


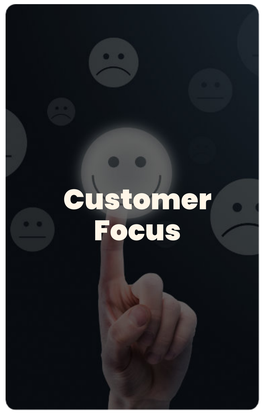












Milestones

1981
Founding
ER-BAKIR was established in Denizli 1st Industrial Site.

1985
First Production and Export
The first film production was carried out, followed by the first export, marking the company's entry into international markets.

1986
Investments
The first wire drawing machine and refining section were put into operation.

1992
Environmental Investments
A Wastewater Treatment Plant was put into operation, marking a significant step towards environmental responsibility.

1996
First Certification
The TSE ISO EN 9002 Quality Management System certificate was obtained, bringing processes into line with international standards.

1997
Additional Investments
The new Continuous Casting Facility renovation project was initiated.

1999
Entry into the Automotive Sector
The QS 9000 TS certificate was obtained, and production for the automotive sector commenced.

2000
Quality Investments
The UKH Goodwill Declaration was signed, and total quality initiatives were launched.

2002
Environmental and OHS Management Systems
ISO 14001 Environmental Management and OHSAS 18001 Occupational Health and Safety certificates were obtained.

2005
Quality Grand Award
The "Aegean Region Quality Grand Award" was won by KalDer.

2007
SAP and Arenko
Processes were digitized with the implementation of the SAP system; Arenko Elektrik Üretim A.Ş. joined the group in the same year.

2009
Fair Assessment
A job evaluation and remuneration system was established.

2011
Industry Leadership
The company became the industry leader in domestic sales volume.

2012
Largest in Anatolia
Selected as the largest company in Anatolia by Ekonomist magazine.

2014
Investment in the USA
CN Wire Corporation was launched in the USA, marking the first overseas production investment.

2017
Authorized Economic Operator Status
Authorized Economic Operator Status was obtained.

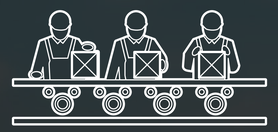
2018
KalDer Award
Awarded the "Team of the Year Award" by the Izmir Branch of KalDer.

2019
Top 3 in Anatolia
Selected as the 3rd largest company in Anatolia by Ekonomist magazine.

2020
KalDer Achievement Award
The "Achievement Award" was presented by KalDer.

2024
New Certificates
On-site Importer and On-site Exporter certificates were obtained.

Er-Bakır in 2024



Employment
854 employees



Annual Sales Volume
125,000 tonnes



Export Value
607.4 million USD



Annual Sales Value
1.45 billion USD



ISO 500: **40th** in Türkiye, **1st** in Denizli

Anatolia's Top 500 Companies: **9th** in Türkiye, **1st** in Denizli

Başak Metal: Ranked **1st** in Denizli and **42nd** in Türkiye according to the results of the Türkiye's Top 1000 Exporting Companies Survey conducted by the Turkish Exporters Assembly

Er-Bakır has achieved recognition among the **"Companies Spending the Most on Energy Efficiency"** with its energy efficiency initiatives, confirming its success in the field of environmental responsibility.

It holds the distinction of being the first and only project supported from Denizli under the **Technology-Focused Industrial Initiative Program** run by the Ministry of Industry and Technology.

As a result of the CDP assessment conducted in 2024, it has proven its environmental performance on a global scale with a **B- rating in the Climate category and a C rating in the Water category.**



CDP
B-



CDP
C

Production Process

Fire Refining

Refining at Er-Bakır is carried out using conventional methods. Blister copper and suitable scrap copper sourced from domestic and imported sources are melted in a Thomas furnace. When melted in the Thomas furnace, the copper gives off a remarkable green color. The liquid copper poured into the anode molds takes on a shape suitable for loading into electrolysis tanks when it solidifies.

Electrolytic Refining

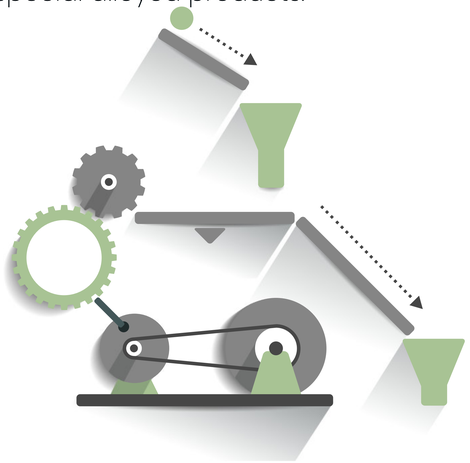
Copper refined by fire and cast in anode form is loaded into tanks for electrolytic refining. During the long electrolytic refining process, pure copper collects on the cathode plates.

Continuous Casting

Liquid copper obtained by melting copper cathodes in a shaft furnace flows into a holding furnace and is directed to the casting machine via runners and a tundish channel. The solidification of liquid copper in the HAZALETT casting machine into bar form is one of the important production stages that determine the quality of the wire rod. The hot copper bar is converted into Ø8mm wire rod in the rolling mill. After the rolling mill, the wire rod enters the surface cleaning and cooling line, where a solution is sprayed onto it, and is then wound into coils ready for sale in the coiling machine.

Up Casting

Upward casting technology is used in the production of oxygen-free copper (OFC), copper-magnesium (CuMg), copper-silver (CuAg), copper-tin (CuSn), and copper-nickel (CuNi) alloy products. In this process, high-purity copper is melted and alloying elements are added in the desired proportions to cast special alloyed products.



Conform

In this process, which combines two operations—surface shaving and extrusion—simultaneous extrusion deformation occurs, resulting in a tempered structure without the need for external heating due to the heat generated during the process. This complex process allows for both cross-section reduction and cross-section enlargement.

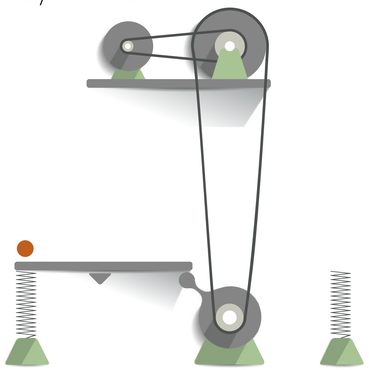
Furthermore, it is possible to produce products with different profiles, not just circular cross-sections. This process also meets the high mechanical property requirements of alloyed products used in the automotive and railway industries.

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Production Process

Draw-Peeling

This is a process in which wire drawing and peeling are performed together to achieve high surface precision, and products with the desired profile are produced using special dies. In addition to the drawing-peeling process, the production of specially profiled trolley wires for railway rigid catenary systems is carried out on this line using the trolley method.



Drawing

Electrolytic copper produced as film stock in the continuous casting plant arrives at the Wire Drawing and Bending Plant, equipped with modern machinery featuring today's advanced technologies, to take its final shape. The 8 mm diameter film stock arriving at the plant is used to produce annealed or hard copper wire of various diameters in rough wire drawing machines. These rough wires, with diameters ranging from 1.00 mm to 4.50 mm, are either shipped directly or used as input wire in tin plating, nickel plating, medium wire drawing, fine wire drawing, and multi-wire drawing machines. Single-wire or multi-wire products used in cold drawing methods can be reduced to as small as 0.05 mm.

Plating

In addition to bare copper wire, tin-plated or nickel-plated copper wire can also be produced according to customer requirements and relevant standards.

Bunching

Bare, tin-plated, or nickel-plated wires produced on single-wire and multi-wire drawing machines are used as input wires in twisting machines.

Input wires are twisted in Double Twist, Single Twist, Planet Strander, and Rigid Strander twisting machines in geometric structures determined according to customer requirements and standards, in cross-sections ranging from 0.05 mm² to 400 mm², and are then wound into the desired packaging for shipment. smooth stranding, etc.) and lengths, and are shipped wrapped in the desired packaging.

Ribbon

PV Ribbon wire is a solder-coated copper conductor used in photovoltaic solar panels. Its production begins with the flattening of the wire using the rolling method, primarily using OFC or ETP copper input wire. After the flattening process, surface cleaning and annealing are performed. Immediately after the annealing step, the wire surface is coated with tin-lead using the hot dip method, resulting in a Sn60Pb40 solder alloy. The wire is then cooled and wound onto the desired spool types.

Products



Wire Rod

Wire rods with a diameter of ø 8 mm are produced by melting cathode copper with a minimum purity of 99.9% and then casting and rolling it.



Mono Wire

Mono-wire products are classified as bare, tin-plated, or nickel-plated. 8 mm diameter wire is drawn down to different diameters in mono-wire drawing machines to produce the final product.



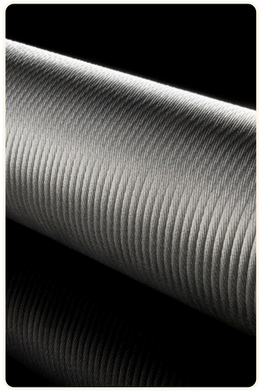
Multi Wires

Input wires from coarse wire or coating processes are thinned in state-of-the-art multi-wire drawing machines and wound dynamically or statically according to demand to become products.



Bunched Wires

Bare, tin-plated, or nickel-plated wires produced in single or multi-wire drawing machines are twisted into various geometric shapes.



Bobbin

Multi-wires are wound onto various types of coils using coil winding machines to form the final product.



Alloys

CuMg, CuAg, CuSn, and CuNi alloyed filaments and wires used in high value-added sectors such as automotive, railway, electronics, and aviation are produced with high quality.



Ribbon Wires

In the ribbon wire process, both round wires and flat wires used in solar panels can be produced.


SUSTAINABILITY AT ER-BAKIR

Sustainability Strategy

Er-Bakır's sustainability strategy is based on placing environmental, social, and governance principles at the center of all corporate activities. Shaped in line with its corporate vision, this strategy reinforces its leading position in the global market with a responsible production approach and a value-adding approach to society.

The company aims to increase its renewable energy investments and meet a significant portion of its energy needs from sustainable sources, primarily solar energy, as part of its carbon-neutral production goal. Investments are being made in technologies that will increase energy efficiency in production processes, and projects such as energy recovery from flue gas heat are being implemented. In waste management, in line with the circular economy approach, the recycling and reuse of by-products from production processes is supported.

Water management is another material area of the sustainability approach. Innovative solutions are being implemented to reduce water consumption in production facilities, and the water footprint is being reduced through closed-loop cooling systems, wastewater recovery, and reuse projects. Thanks to the implemented applications, natural resources are being protected and operational sustainability is being strengthened.

Innovation and digital transformation are among the key elements supporting Er-Bakır's sustainability approach. The company's R&D Center leads the development of low-carbon and high-efficiency production technologies, while digitalization ensures that production processes are more transparent, traceable, and efficient. Furthermore, within the scope of supply chain sustainability, business partners are required to act in accordance with environmental and social responsibility criteria, and transparency, ethical principles, and quality standards are disseminated throughout the entire value chain.

On the social front, training and development programs are implemented to enhance employees' competencies in sustainability, creating a safe, inclusive, and equitable working environment. While aiming to increase female employment in line with the principle of gender equality, local development is supported through social contribution projects focused on education, environment, and technology.

All these elements demonstrate that Er-Bakır's sustainability strategy is approached with a holistic vision that encompasses not only the present but also the future. Through collaboration with its stakeholders, the company aims to increase its competitiveness in the global value chain and contribute to building a more sustainable world thanks to this strategy, which is shaped around low-carbon production, circular economy, digitalization, and social responsibility.

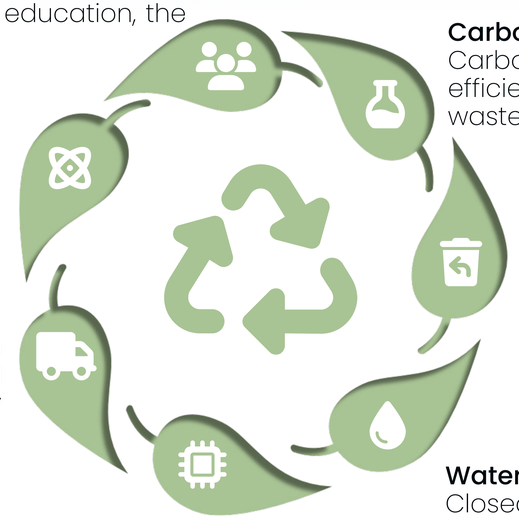


Sustainability Strategy Focus Areas

Social Contribution
Contributions are made to local development and social welfare through social projects focused on education, the environment, and technology.

People-Centric Approach
Investing in employee development, providing a safe and inclusive work environment, and supporting gender equality policies.

Sustainable Supply Chain
Suppliers are evaluated based on environmental and social responsibility criteria, with ethical compliance and transparency being prioritized.



Innovation and Digital Transformation
Low-carbon products are being developed through R&D efforts. Digitalization is increasing the transparency and efficiency of production processes.

Carbon Neutral Production
Carbon neutral production is targeted by increasing energy efficiency, investing in renewable energy, and implementing waste heat recovery projects.

Circular Economy
Waste generated from production processes is recycled, and by-products are reintroduced into the economy to optimize resource utilization.

Water Management
Closed-loop systems and wastewater recovery applications reduce water consumption and protect water resources.

Governance Structure

Er-Bakır embraces sustainability goals as an integral part of its corporate strategy and has developed a comprehensive governance structure in line with this approach. The company's sustainability management model consists of three fundamental structures: the Sustainability Committee, the Sustainability Coordination Team, and Project Teams. This layered structure provides an effective, transparent, and accountable system that covers both strategic decision-making processes and operational-level applications.

Sustainability Committee

The Sustainability Committee, the company's highest decision-making body, ensures the creation, approval, and implementation of the sustainability strategy in line with corporate goals. The committee undertakes critical responsibilities such as setting long-term goals, strategic risk management, monitoring performance indicators, and allocating necessary resources. Comprising the CEO, CFO, CHR, CTO, CHRO, and Quality Assurance Manager, the Sustainability Committee plays a key role in integrating sustainability efforts into the company's overall vision. The committee meets twice a year, every six months, to evaluate strategic governance processes.

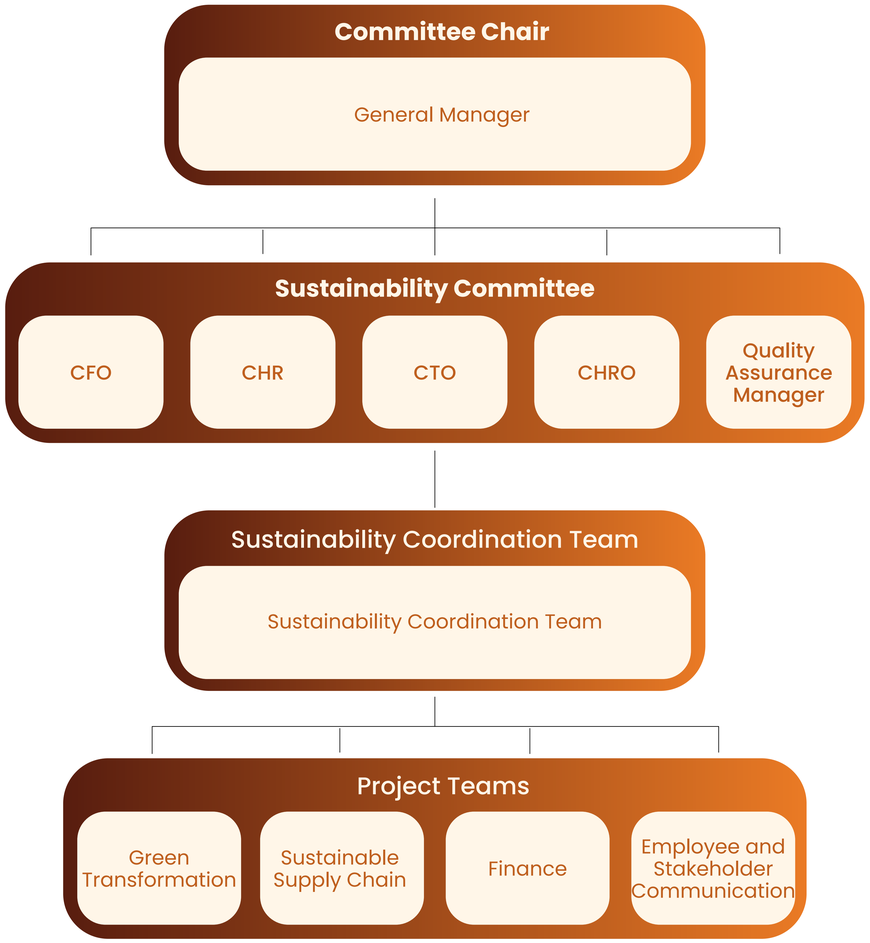
Sustainability Coordination Team

The Sustainability Coordination Team operates to disseminate the company's sustainability strategies at the operational level, ensure interdepartmental coordination, and support the effective implementation of projects. This team, composed of managers, promotes the adoption of sustainability goals across the company, monitors performance indicators (KPIs), and regularly prepares performance reports for submission to senior management. The team also plays an active role in strengthening stakeholder collaboration, increasing employee knowledge and awareness of sustainability, identifying areas for improvement, and preparing the annual sustainability report. Monitoring risks, ensuring compliance with national and international standards, and directing continuous improvement activities are also among the team's key responsibilities. The Sustainability Coordination Team meets quarterly to regularly assess developments and strengthen alignment with strategic goals, ensuring the effective implementation of the sustainability strategy across the company in line with the decisions

Project Teams

Project Teams consist of department specialists and engineers, with each subgroup focusing on a specific sustainability dimension and carrying out their activities with the support of the relevant departments. These teams undertake critical tasks such as preparing project plans, conducting risk analyses, tracking KPIs, managing resources effectively, and preparing progress reports. The experiences gained and lessons learned during the implementation process are transferred to future projects, supporting a culture of continuous improvement. Project Teams regularly report their activities to the Sustainability Coordination Team and evaluate progress at monthly meetings.

Thanks to this integrated structure, Er-Bakır has established a governance model that is systematic, transparent, and focused on continuous improvement by integrating sustainability strategies into all of the company's business processes.



Stakeholder Engagement

Er-Bakır views stakeholder engagement as a strategic element in achieving its sustainability goals. Building strong, mutually trusting relationships, understanding expectations, and integrating feedback into processes are part of the company's sustainability approach.

Communication with stakeholders is built on the principles of transparency, accountability, and continuity. Stakeholder opinions and suggestions are gathered through regular meetings, field visits, customer interviews, surveys, and digital communication channels, and this feedback is incorporated into strategic decision-making processes. Solutions tailored to stakeholder needs and expectations are developed to create shared value.

In line with the principles of diversity and inclusiveness, partnerships are developed with different stakeholder groups such as employees, customers, suppliers, community members living in the regions where the company operates, and non-governmental organizations. These partnerships create synergy in the field of sustainability, aiming to maximize social and environmental benefits. The effectiveness of stakeholder engagement processes is regularly monitored, and areas for improvement are identified based on the findings.

> **Communication with stakeholders is built on the principles of transparency, accountability, and continuity.**



Materiality Analysis

Materiality analysis is used as a fundamental tool in determining Er-Bakır's strategic roadmap for sustainability management. The analysis strengthens the company's long-term value creation capacity by providing a comprehensive assessment of both its environmental, social, and governance impacts and stakeholder expectations.

While conducting the materiality study, the company's strategy, global and sectoral developments, international standards, and legal regulations were taken into account, and a comprehensive pool of topics was created. In addition, the practices of peer companies, sectoral studies, and various sustainability initiatives were examined to determine material areas for Er-Bakır's activities.

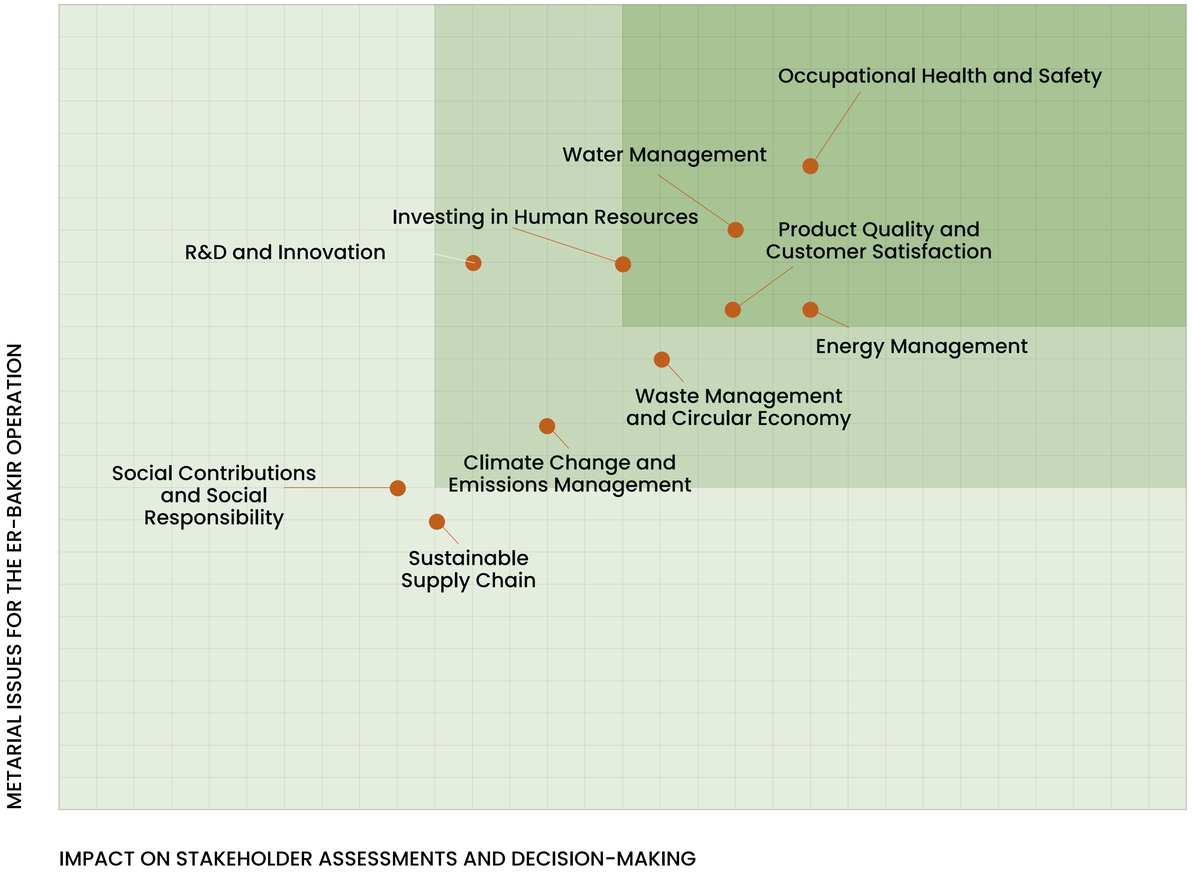
The identified topics were presented to the company's internal and external stakeholders via a survey, and each topic was asked to be evaluated as "very high material," "high material," or "material." A broad stakeholder group consisting of customers, suppliers, employees, group companies, public institutions, partner organizations, and civil society representatives was included in the study. This enabled the collection of a comprehensive data set regarding external expectations.



The analysis results were evaluated comparatively in line with both Er-Bakır's operations and stakeholder priorities, and a final materiality matrix was created. According to the 2024 results, Occupational Health and Safety, Product Quality and Customer Satisfaction, Water Management, Energy Management, Waste Management, and Circular Economy were among the "very high material" issues.

Er-Bakır's sustainability strategies are structured to focus on the most critical impact areas, decisions are made in line with stakeholder expectations and considering environmental and social impacts, and the responsibilities for the prioritized issues are distributed to the relevant units to ensure that the targets are translated into concrete applications in the field. Thus, the sustainability approach serves as a guiding compass for both short-term performance goals and the long-term vision of value creation.

Material Topics and Materiality Matrix



Very High Materiality

- Occupational Health and Safety
- Water Management
- Product Quality and Customer Satisfaction
- Energy Management
- Investing in Human Resources

High Materiality

- Waste Management and Circular Economy
- Climate Change and Emissions Management
- R&D and Innovation

Moderate Materiality

- Sustainable Supply Chain
- Social Contributions and Social Responsibility

Contributions to Sustainable Development Goals

01 - Occupational Health and Safety
Er-Bakır considers the safety and health of its employees to be its highest material. In this context, comprehensive OHS management systems are implemented to strengthen the occupational safety culture, proactively manage risks, and ensure continuous improvement with the goal of zero workplace accidents. A safe working environment is created through training, awareness campaigns, and regular inspections.

02 - Investment in Human Resources
Training and career planning programs are implemented for the continuous development of employees, creating an inclusive and equitable working environment. Employee satisfaction and loyalty are increased by supporting gender equality and diversity policies.

03 - Product Quality and Customer Satisfaction
Innovative production technologies are used and quality control processes compliant with international standards are implemented to ensure product quality and customer satisfaction. Customer feedback is regularly evaluated to ensure continuous improvement in products and services.

04 - Water Management
Er-Bakır treats the protection and efficient use of water resources as a strategic priority. Water consumption is monitored, and water is used cyclically through recovery projects and closed-loop systems. Water footprint calculations are performed, and environmental impacts are regularly monitored.

05 - Energy and Emissions Management
Low-carbon production is targeted through projects aimed at increasing energy efficiency and reducing carbon emissions. A significant portion of energy needs is met from clean sources through renewable energy investments and GES projects. Emissions are regularly measured, reported, and verified by independent organizations.

06 - Sustainable Supply Chain
Suppliers are required to comply with environmental and social responsibility criteria, and a culture of sustainability is promoted throughout the supply chain through regular assessments and collaborations.

07 - Waste Management and Circular Economy
A circular economy approach is adopted, based on reducing, recycling, and reusing waste generated from production processes. By-products are reintroduced into the economy, and waste disposal processes are fully compliant with regulations.

08 - R&D and Innovation
R&D investments are being made to develop low-carbon and high-efficiency products, and innovative technologies are being used in production processes. Thanks to digitalization, transparent, efficient, and traceable production systems are being established.

09 - Social Contributions and Social Responsibility
Social projects focused on education, the environment, and technology aim to increase social welfare. Projects supporting local development are carried out, and social responsibility activities contribute to the sustainable development of society.



Sustainability and Climate-Related Risks and Opportunities

The effects of increasing climate change on a global scale have gone beyond being an environmental issue and have become one of the strategic agenda items of the business world with its economic and social dimensions. The climate crisis directly affects the sustainability of energy, water, and raw material resources, reshaping companies' business models, supply chains, and investment plans. Therefore, the accurate identification, analysis, and management of climate change-related risks are seen as critical elements for long-term corporate success and value creation.

Er-Bakır addresses the challenges posed by climate change as a strategic priority and places a risk management approach at the heart of its sustainability strategy. The company regularly analyzes operational and financial impacts and develops comprehensive action plans to gain a strong position in the transition to a low-carbon economy.



Risk Assessment Process

Er-Bakır has adopted the TCFD (Task Force on Climate-related Financial Disclosures) framework, recognized as one of the international best practices, to systematically manage climate-related risks. This framework enables the comprehensive identification, assessment, and reporting of risks, allowing them to be integrated into strategic decision-making processes.

In the risk assessment process, climate-related risks are examined under two main categories: physical risks and transition risks.

Physical risks encompass those risks that arise directly from climate change and have tangible impacts on a company's operations. Factors such as extreme temperature increases, drought, floods, storms, heavy rainfall, and natural disasters can lead to production facility disruptions, infrastructure damage, logistical challenges, and cost increases. Accurate analysis of physical risks is critical, particularly in terms of access to water resources, energy use, and sustainability in the supply chain.

Transition risks refer to the economic, legal, and strategic challenges that arise during the adaptation process to a low-carbon economy. Carbon taxes, new legal regulations, changes in customer expectations, the proliferation of low-carbon technologies, and financial markets shifting towards sustainability-focused criteria have a direct impact on companies' business models. If not managed with the right strategies, these risks can lead to increased costs, reduced competitiveness, and damage to brand value.

The infrastructure established for risk and opportunity management enables Er-Bakır to comprehensively analyze risks in line with their probability of occurrence and potential impacts, creating a robust and systematic foundation for strategic decision-making processes. By clearly defining different time horizons and potential financial impacts for risk assessment, it facilitates the materiality and effective management of risks.

Impact Level	Estimated Financial Impact (USD)
Very High	> 10 million USD
High	2.5 – 10 million USD
Medium	500,000 – 2.5 million USD
Low	0 – 500,000 USD

Risk Maturity Period	
Long	7 years and above
Medium-Long	4 - 7 years
Medium	2 - 4 years
Short-Medium	1 - 2 years
Short	0 - 1 year



Climate-Related Risk and Opportunity Management

Er-Bakır adopts a proactive approach to managing climate change-related risks. In this context, the impact of risks on current operations and their potential implications for future growth and sustainability goals are also taken into account.

Infrastructure reinforcement projects are being implemented at production facilities, and water and energy management strategies are being applied to mitigate the negative effects of extreme weather events. Geographic diversity and strategic stockpiling policies have been developed to increase the resilience of the supply chain against climate-related disruptions.

Materiality is given to renewable energy investments to prevent cost increases that may arise from carbon pricing and regulatory changes. A low-carbon product portfolio is being developed, and sustainable production models are being designed to meet customer demands. In addition, public incentives are being utilized in technological transformation processes, and transparency is ensured through regular stakeholder communication.

The transformation brought about by climate change presents significant opportunities for businesses, as well as risks. Er-Bakır is focusing on increasing energy efficiency and investing in renewable energy during this transformation process, thereby reducing its operational costs and optimizing resource use. The development of recyclable and environmentally friendly products provides a strong competitive advantage in international markets and effectively responds to customer demands for sustainable products. Furthermore, the establishment of sustainable supply chains strengthens global partnerships and prepares a strategic groundwork that will open up new investment opportunities. This proactive approach supports Er-Bakır's economic growth and ensures that it occupies a leading position in its sector in the transition to a low-carbon economy.



Climate-Related Risk and Opportunity Management

Risk 1

Regulatory Changes:
Er-Bakır may face increased operational costs due to new regulations aimed at reducing carbon emissions, carbon pricing mechanisms, and carbon tax applications. This situation may negatively affect the company's competitiveness and challenge its financial sustainability. Furthermore, such regulatory changes may create pressure to adopt lower-carbon operations and products throughout the supply chain.



Er-Bakır Current Strategies

Numerous measures are being implemented to proactively manage and comply with risks arising from carbon pricing regulations and other environmental regulations.

1. Regulatory Monitoring and Industry Participation:
Regular participation in Chamber of Industry meetings and sectoral associations' training and information programs is ensured to closely monitor legal regulations and sectoral developments.

Collaboration with relevant stakeholders is undertaken to understand and manage the impact of regulatory changes on company operations.

2. Energy Diversification and Renewable Energy Use:
A solar power plant investment has been made to reduce carbon emissions and manage energy costs. Operational flexibility has been increased by diversifying different energy sources.

3. Emission Calculation and Monitoring:
Er-Bakır applies internationally recognized methods such as the ISO 14064 standard and the GHG Protocol to monitor and report its carbon footprint. The data calculated each year is regularly audited and verified by independent third-party verification organizations. This enables the company to set its emission reduction targets and systematically and reliably monitor and report its progress towards these targets.

4. Supply Chain Management:
Negotiations and collaboration efforts with critical suppliers continue within the scope of carbon footprint management. Carbon reduction strategies are pursued in line with the company's low-carbon production vision.

Climate-Related Risk and Opportunity Management

Risk 2

Market Changes:
The transition to a low-carbon economy may lead to significant changes in customer demand. In particular, increased demand for energy-efficient products with a low carbon footprint may affect Er-Bakır's strategic planning. This situation may cause fluctuations in demand for the company's current product portfolio and may require the development of new business models in line with customers' expectations for recycling-oriented products.



Er-Bakır Current Strategies

Strategies have been implemented to effectively manage potential risks arising from market changes and to adapt to customer demands.

1. Low-Carbon Raw Materials and Production Approach:
In order to adapt to a low-carbon economy, opportunities for the use of low-emission cathodes and similar raw materials in production are being evaluated.

Integrated with carbon reduction efforts, new technologies are being pursued to increase the energy efficiency of production processes and reduce emissions, and studies are being conducted on their applicability in the field.

1. Recycling Infrastructure and Capacity:
Existing recycling facilities are being utilized to meet customer demand for recycling-focused products. The use of recycled copper is being encouraged, contributing to environmental sustainability goals and meeting customer expectations.

3. Customer and Market Analysis:
Market analyses are conducted regularly to identify changes in customer expectations in advance and shape strategic decisions accordingly. Considering the increasing demand for low-carbon and energy-efficient products, the company's product portfolio is continuously reviewed and diversified.

4. Innovation and Product Development:
Innovative product design and R&D efforts are focused on developing low-carbon products.

Climate-Related Risk and Opportunity Management

Risk 3

Technology Integration:
In the transition to a low-carbon economy, it may be necessary to invest in new technologies to make production processes more environmentally friendly and energy efficient. Transitioning to such technologies may create operational risks due to high initial costs and difficulties in the adaptation process. Furthermore, technical or logistical problems that may arise in integrating existing equipment and systems with new technologies can lead to disruptions in production processes.



Er-Bakır Current Strategies

Strategies have been established to manage the operational risks that may be encountered during the transition to low-carbon technology and to evaluate opportunities in this area.

1. Technology Monitoring and Suitability Assessment:
The company closely monitors emerging technologies and innovations related to low-carbon production processes. Comprehensive suitability assessments are conducted for the integration of new technologies into existing systems.

2. Use of Incentive and Support Mechanisms:
Public incentives and other financial support mechanisms are utilized in the investment processes for new technologies. These support mechanisms contribute to minimizing costs and accelerating the technology adaptation process.

3. Selection of Energy-Efficient Equipment:
Equipment used in production processes is carefully selected based on criteria for increasing energy efficiency and reducing carbon emissions. In procurement processes, criteria aimed at reducing the carbon footprint are prioritized.

4. Proactive Adaptation and Training:
Training programs and technical support are provided to employees to minimize adaptation challenges that may arise during the integration of new technologies into the system. Trial and pilot applications are conducted during the technological transition process to prevent production disruptions.

Climate-Related Risk and Opportunity Management

Risk 4

Reputation Loss:
Perceived low sustainability performance may lead to a loss of reputation for Er-Bakır among investors, customers, and other stakeholders. 's competitiveness may weaken, especially during the transition to a low-carbon economy, if it fails to comply with environmental and social responsibility standards. Er-Bakır may face the risk of losing stakeholder trust if it fails to effectively implement its sustainability strategies.



Er-Bakır Current Strategies

Communication strategies have been implemented to effectively implement sustainability strategies and develop trust-based relationships with stakeholders.

1. Data Transparency and Consistency:
Transparency and consistency are ensured in the sharing of data related to sustainability performance. Environmental and social performance data are reported regularly to provide accurate and up-to-date information to all stakeholders.

2. Full Compliance with Regulations:
The company fully complies with legal regulations in all its activities and meticulously follows the permit processes. Regulatory compliance enhances the company's credibility among its stakeholders.

3. Customer, Investor, and Supplier Communication:
Regular communication and collaboration meetings are held with customers, investors, and suppliers. At these meetings, sustainability goals, performance, and improvement processes are shared, and stakeholder expectations are evaluated.

4. Proactive Reputation Management:
Innovative projects and investments are implemented to improve sustainability performance and reduce the environmental footprint. The company aims to create a positive perception by sharing its achievements in the field of sustainability with the public.

Climate-Related Risk and Opportunity Management

Risk 5

Legal Implications:
Er-Bakır may face legal proceedings, compensation claims, and lawsuits arising from climate change due to its contribution to climate change. Such legal risks may adversely affect the company's financial stability and lead to a loss of reputation. Furthermore, in an environment where national and international regulations are changing rapidly, deficiencies in compliance processes may put the company's operational activities at risk.



Er-Bakır Current Strategies

A robust regulatory compliance and legal monitoring system is in place to effectively manage legal risks and prevent potential sanctions.

1. Full Regulatory Compliance and Proactive Approach:
The company is in full compliance with all applicable legal regulations. Environmental compliance processes are meticulously monitored, and all necessary permits are obtained in full. Going beyond regulatory requirements, the company not only ensures compliance but also takes a leading role in environmental sustainability.

Open and transparent communication is established with stakeholders, and regular reports are provided on environmental performance and compliance processes.

2. Legal Monitoring and Expert Units:
Specialist units have been established to monitor and evaluate changes in legal regulations in real time. These units ensure that measures related to relevant regulations are taken in a timely manner and facilitate compliance processes.

3. Past Performance and Audits:
No issues have been encountered in Environmental Impact Assessment (EIA) processes in previous years, and this success is considered an indicator of diligence in legal processes. Compliance with legislation is ensured through regular audits and internal controls.

Climate-Related Risk and Opportunity Management

Risk 6

Extreme Weather Events:
Er-Bakır's production facilities may be exposed to extreme weather events (floods, storms, extreme temperatures, drought) that are increasing in frequency and intensity due to climate change. Such events can lead to production interruptions, infrastructure damage, and cost increases, creating negative impacts on operational sustainability. Furthermore, the depletion of water resources or damage to infrastructure systems may affect the efficiency of production processes and pose risks to long-term planning.



Er-Bakır Current Strategies

Measures developed to prevent the negative effects of extreme weather events and minimize these risks are implemented throughout operations.

1. Infrastructure Reinforcement and Improvement Works:
Wastewater systems have been reviewed and adjustments have been made to minimize risks in these systems. The infrastructure of existing structures has been updated and made resistant to rainfall risk in order to reduce the rain load that may occur on roofs. System changes have been made to reduce water loss in cooling towers.

2. Energy Efficiency and Technological Investments:
Fiber fan systems have been tested in cooling towers to increase energy efficiency. Special air conditioning and cooling systems have been installed in the equipment to optimize energy consumption and protect the facilities against excessive temperatures. Infrastructure and equipment modernization is continuously updated by keeping track of new technologies.

3. Risk Analysis and Preventive Measures:
Environmental risk assessment studies, such as earthquake studies, are conducted regularly to increase the resilience of facilities. Regular assessments are conducted to minimize rainfall risks, and the measures taken are continuously updated.

4. Water Management and Drought Measures:
Innovative system changes have been implemented to reduce water consumption in cooling systems. Systems that prevent water loss have been developed to ensure the sustainable use of water resources.

5. Long-Term Planning and Proactive Approach:
Long-term planning is carried out to anticipate the effects of climate change and extreme weather events, and facility resilience is continuously improved. Infrastructure improvements and the integration of new technologies have been identified as priority areas in risk management.

Climate-Related Risk and Opportunity Management

Risk 7

Restricted Access to Water:
Dependence on water in production processes may create operational risks in the event of water resource depletion or scarcity. Water scarcity may increase production costs by raising the cost of accessing water resources and may lead to a decline in production capacity. In addition, increasing regulatory pressure regarding water consumption and management may negatively impact operational sustainability.



Er-Bakır Current Strategies

The following measures are implemented to systematically manage the risk of water resource depletion and increase operational resilience.

1. Water Usage Measurement and Monitoring:
A comprehensive water measurement system has been established to track the amount of water used in production processes.

Regular monitoring of water consumption in each process and evaluation of opportunities to improve efficiency.

2. Water Footprint Assessments:
Water footprint assessments have been conducted for cathode and film products in line with customer requests. Calculations made in accordance with the ISO 14046 standard have been subject to a verification process by independent third-party organizations. These studies contribute to a better understanding and optimization of water consumption and water-related environmental impacts throughout the product life cycle.

3. Water Management and Conservation Strategies:
Water collection systems have been researched and their feasibility evaluated to ensure more efficient use of water resources. Wastewater recovery projects and the use of alternative water sources are being planned to reduce future water risks. Employees' knowledge and awareness levels are being increased through regular training on water management and water footprint assessment.

Climate-Related Risk and Opportunity Management

Risk 8

Supply Chain Disruptions:
Extreme weather events, natural disasters, and environmental pressures caused by climate change may lead to disruptions in Er-Bakır's raw material supply chain . This situation may cause delays and cost increases, particularly in the procurement of raw materials used in copper production. Such disruptions in the supply chain may reduce production capacity and negatively impact operational sustainability.



Er-Bakır Current Strategies

There are many applications available to mitigate the risks arising from supply chain disruptions and maintain operational stability.

1. Source Diversification:
A geographic diversification strategy has been adopted to minimize supply chain risks. The company sources its raw materials from different continents and various supply channels (excluding air transport). This practice increases the resilience of the supply chain against regional risks.

2. Local Storage and Strategic Stockpiling:
Agreements with suppliers include a requirement to keep a certain amount of materials in stock in warehouses in Türkiye. This practice acts as a buffer against sudden interruptions, ensuring production continuity.

3. Supplier Relations and Cooperation:
Regular meetings are held with suppliers to assess potential risks in the supply process and develop mutual solutions. Joint cooperation projects are carried out to monitor supplier performance and increase sustainability criteria.

4. Logistics and Transportation Optimization:
Logistical risks are reduced by using various transportation methods for raw material transportation. Alternative transportation routes are evaluated, and flexibility is ensured in the supply process.

5. Proactive Risk Analysis:
Potential risks throughout the supply chain are regularly analyzed, and preventive measures are taken against supply chain disruptions. In addition to current risks, strategic preparations are made for potential future supply chain issues.

ENVIRONMENTAL PERFORMANCE

Environmental Management

Er-Bakır has made environmental sustainability central to all its production and management processes, integrating the protection of natural resources and the minimization of environmental impacts into all its operations. The company's environmental management approach is implemented in accordance with the **ISO 14001** Environmental Management System, **ISO 14064** Corporate Carbon Footprint, **ISO 14046** Water Footprint, **ISO 14067** Product Carbon Footprint, and **ISO 50001** Energy Management System standards.

In 2024, a total of 5.43 million TL was allocated for environmental management activities, with this resource primarily directed towards energy efficiency, water management, waste management, and environmental monitoring systems. A significant portion of the electricity demand is met by clean energy sources through the **Solar Power Plant (SPP)** located on the facility site, reducing dependence on the grid. In addition, efficiency studies were carried out on production lines to reduce energy consumption and optimize resource use, and measurement and control systems were strengthened for regular monitoring of environmental performance.

In line with the "you can't manage what you don't measure" approach, new meters were put into operation throughout the facility in 2024 as part of water management efforts. This has enabled regular monitoring of water consumption data, while water usage performance is measured and tracked through water footprint studies in accordance with the ISO 14046 standard.

The waste management approach is based on recovery, encouraging the reuse and economic recovery of production-related waste and by-products. Only limited amounts of non-recyclable waste are sent for disposal when absolutely necessary, and all processes are carried out in accordance with relevant legislation. In addition, environmental and sustainability training has been organized to raise employee awareness, and participatory events such as the Sustainability Slogan Contest have encouraged employees to actively participate in the process.

Er-Bakır continues its work with the goal of continuously reducing its environmental impact, contributing to the vision of a circular economy and low-carbon production. The steps it has taken to protect the environment and ensure the sustainable use of natural resources guarantee the quality of life in the future.

> A total of **5.43 million TL** was spent on environmental management activities in 2024.



Climate Change and Emissions Management

Comprehensive strategies are implemented to regularly monitor, report, and reduce carbon emissions in order to minimize the environmental, economic, and social impacts of climate change. The company implements continuous improvement projects to increase energy efficiency in its production processes, strengthen renewable energy investments, and accelerate the transition to low-carbon technologies.

The ISO 14064 standard and GHG Protocol are used as a basis for calculating and managing greenhouse gas emissions, and processes are carried out in accordance with internationally accepted methodologies. The calculated data is meticulously audited and verified each year by independent third-party verification organizations.

Greenhouse Gas Emissions	Unit	2022	2023	2024
Scope 1	t CO_2 e	13,928	14,644	12,678
Scope 2	t CO_2 e	35,728	32,784	29,473
Scope 3	t CO_2 e	1,061,421	927,109	863,523

"Emissions in 2024 decreased by 5.2% in Scope 1 emissions and 17.3% in Scope 2 emissions compared to 2022."





In 2024, Scope 1 emissions decreased compared to 2023. The main reasons for this decrease were savings in natural gas consumption and process optimizations.

In Scope 2 emissions, there was a significant decrease in the amount of electricity purchased from the grid, along with an increase in the capacity of the company's **SPP** investments. This resulted in a marked decrease in electricity-related indirect emissions.

In Scope 3 emissions, indirect emissions from raw materials decreased compared to the previous year as a result of changes in raw material purchase quantities.

Furthermore, as part of improvements made in logistics processes, the truck load factor increased from an average of 20.83 tons per vehicle in 2020 to 22.28 tons by the end of 2024. This increase has optimized the amount of cargo transported per vehicle and contributed to reducing logistics-related emissions by achieving tonnage-based efficiency. Furthermore, electric forklifts have been introduced to reduce fossil fuel use in operations, marking a significant step toward lowering the carbon footprint.

Product Carbon Footprint calculations are performed in accordance with the ISO 14067 standard to analyze the environmental impact of products. In addition to calculations made at the corporate level, carbon impacts are also determined on a product-by-product basis, creating added value in terms of sustainability for the supply chain and business partners.

The company regularly reports to international platforms such as CDP and EcoVadis in order to measure its environmental performance against global standards and share it transparently. In the CDP assessment conducted in 2024, the **B- rating** achieved in the climate category was a strong indicator of the company's strategic steps in combating climate change and its sustainability vision.

Based on these results, Er-Bakır aims to minimize the negative effects of climate change and strengthen its sustainable production vision by enhancing its projects to reduce emissions.

Energy Management

Er-Bakır prioritizes energy management as part of its sustainability strategy and implements comprehensive and planned applications to increase energy efficiency in its production processes. Thanks to a comprehensive management model established in accordance with ISO 50001 Energy Management System standards, energy consumption is regularly monitored, reported, and optimized based on the principle of continuous improvement. The continuous improvement approach contributes significantly to reducing energy costs, lowering greenhouse gas emissions, and strengthening environmental sustainability.

Renewable Energy Production

One of the most important elements of the company's renewable energy investments is the Solar Power Plant with an installed capacity of 4.5 MW. In 2024, the SPP production reached 8,023,653 kWh, thus achieving a significant reduction in the amount of electricity purchased from the grid and preventing the release of approximately 3,570 tons of CO_2e emissions into the atmosphere.

Waste Heat Recovery

Waste heat generated during production was recovered using a waste heat recovery system. In 2024, 396,231 kWh of steam energy was recovered and reused in processes, thereby improving energy efficiency and resource utilization.

Energy Efficiency Projects

A total of 230,933 kWh was saved in 2024 through energy efficiency projects. Notable projects included replacing cooling tower fans with energy-efficient models, switching from belt-pulley systems to coupling systems, and motor and pump overhauls. These projects resulted in a total reduction of 102.76 tCO_2e emissions.

> Energy efficiency projects implemented in 2024 resulted in a total investment of **$134,410**, and together with renewable energy projects currently in operation, an annual total energy savings of **8.65 million kWh** was achieved. This savings is equivalent to the annual electricity consumption of approximately **3,800 households**.

- **11.9%** decrease in natural gas consumption and **15.3%** decrease in electricity consumption
- Investment in **4.5 MW** solar power plant
- **396,231 kWh** of steam energy recovery



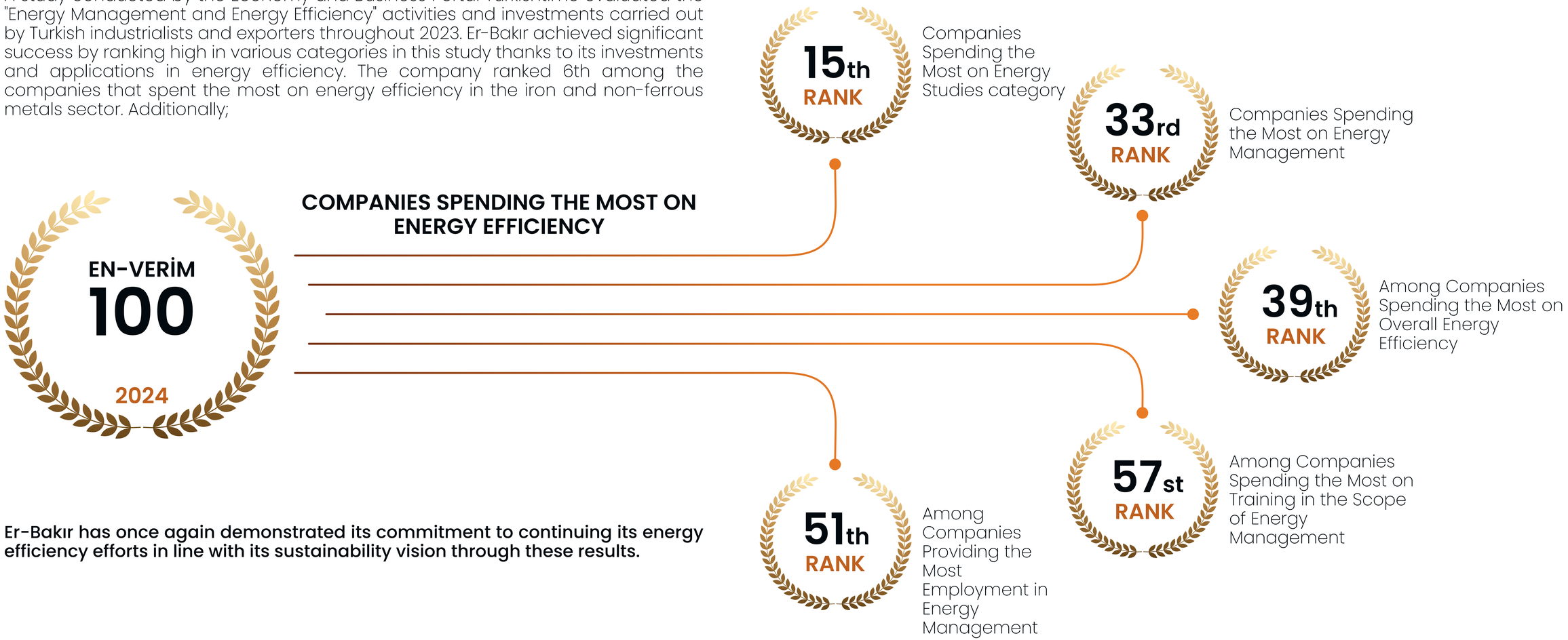
The main objective of energy management efforts is to strengthen the sustainable production structure by encouraging the modernization of technologies used in energy-intensive processes, beyond simply reducing energy consumption. Er-Bakır aims to be a leader in energy management by increasing its renewable energy investments and expanding its digital energy monitoring systems in the coming years.



Project Name	Project Content	Energy Savings (kWh/year)	Carbon Reduction Amount (tCO_2e)
Replacement of Cooling Tower Fan with Energy-Efficient Fan	An energy-efficient fan system has been installed that consumes less energy for the existing cooling capacity.	10,950	4.87
Conversion of the Belt-Pulley System to a Coupling System	The belt-pulley system has been replaced with a direct drive coupling system to reduce transmission losses.	98,968	44.04
Fine Wire Machine Revision	Energy efficiency has been increased and the number and duration of failures have been reduced through high-efficiency motors and software development.	3,574	1,59
Bending Machine Overhaul	New generation motors have been installed in place of old motors and panel components.	6,635	2.95
Casting Plant Pump Replacement	Energy savings have been achieved with a more efficient new generation pump.	110,806	49.31
SPP	Electricity savings from the solar power plant.	8,023,653	3,570
Steam produced from waste heat	Steam has been recovered by producing steam from waste heat released during the continuous casting process.	396,231	176.33
Total		**8,650,817**	**3,849.08**

Energy Efficiency and Investments

A study conducted by the Economy and Business Portal Turkishtime evaluated the "Energy Management and Energy Efficiency" activities and investments carried out by Turkish industrialists and exporters throughout 2023. Er-Bakır achieved significant success by ranking high in various categories in this study thanks to its investments and applications in energy efficiency. The company ranked 6th among the companies that spent the most on energy efficiency in the iron and non-ferrous metals sector. Additionally;



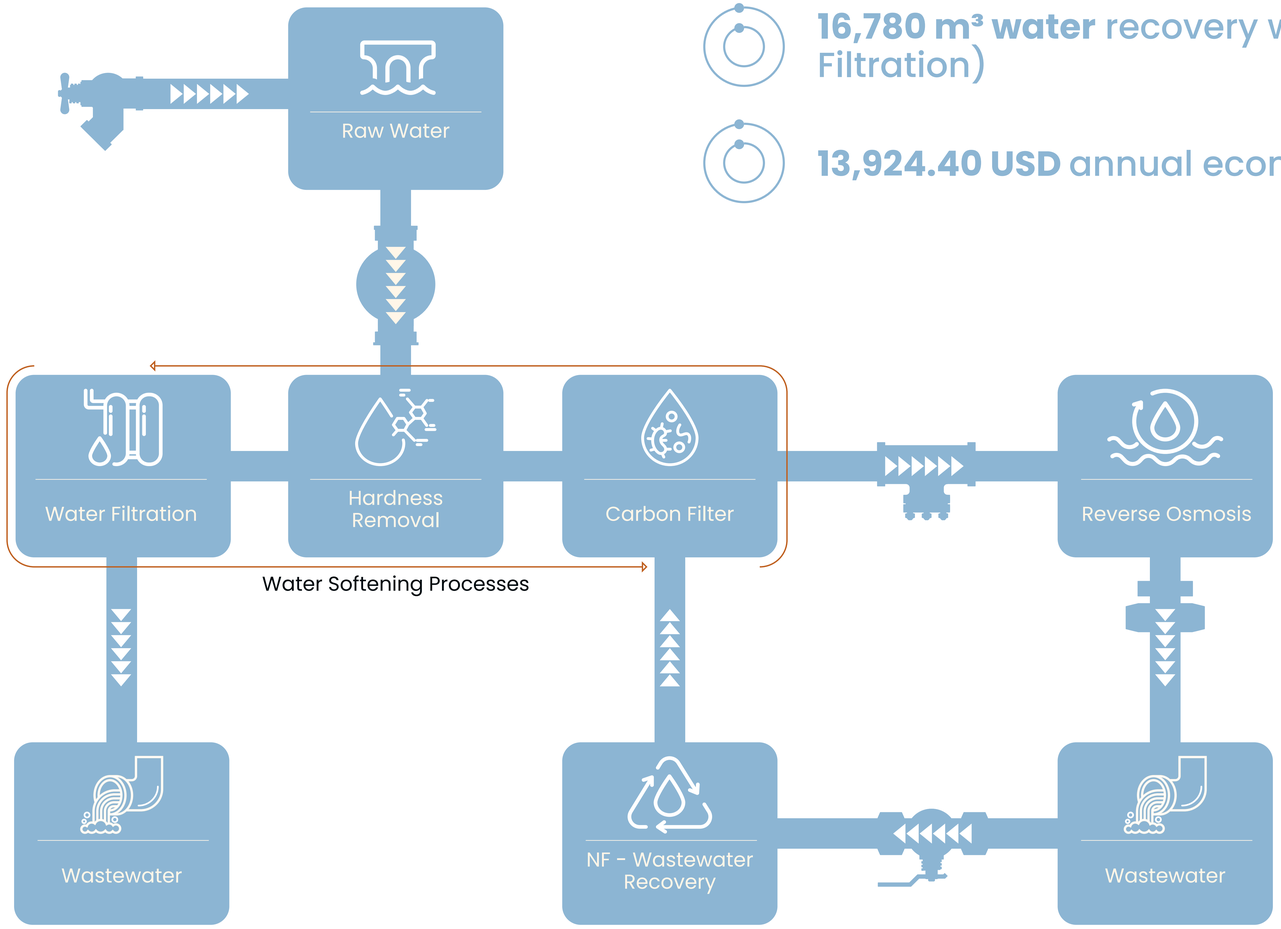
Er-Bakır has once again demonstrated its commitment to continuing its energy efficiency efforts in line with its sustainability vision through these results.

Water Management

The protection of water resources, access security, and prevention of water pollution are becoming increasingly important every day, also due to the effects of climate change. The efficient use of water in production processes is considered a strategic priority not only for ensuring operational continuity but also for protecting natural ecosystems and leaving a livable world for future generations.

Water is used at various stages as a basic input in production processes. After undergoing the necessary conditioning processes in the treatment systems within the facility, water is used in casting and wire drawing processes for cooling, emulsion and chemical solution preparation, as well as in areas such as the cafeteria, washrooms, and landscape irrigation. Thanks to the meters put into operation in 2024, water consumption can now be monitored on a process basis, allowing for a clearer analysis of usage intensity and areas for improvement.

Er-Bakır prioritizes recovery and optimization projects to increase water efficiency and reduce costs. The NF (Nano Filtration) recovery project implemented in 2024 recovered 16,780.3 m³ of water, corresponding to 7% of total water consumption. The project resulted in a significant reduction in regeneration waste and generated an economic gain of USD 13,927.40/year. With the optimization and additional water recovery projects planned for 2025, further improvements in regeneration waste and recoverable water quantities are targeted.



16,780 m³ water recovery with NF (Nano Filtration)

13,924.40 USD annual economic gain

As part of the work carried out in 2024, water footprint calculations were performed within the framework of the ISO 14046 Water Footprint Standard, and this process was verified by an independent third-party organization.

KPIs (Key Performance Indicators) related to water production and usage processes were determined, and as a result of three years of data analysis, performance was regularly monitored and deviations were eliminated.

Er-Bakır also measures and shares its environmental performance on international transparency platforms. In this context, it received a "C" rating in the 2024 CDP (Carbon Disclosure Project) Water Security assessment, securing international recognition for its strategic steps in water management and sustainability efforts.

In the coming period, Er-Bakır plans to further strengthen its water management practices at the corporate level and define its long-term goals within this scope with a Water Management Policy. Thus, it aims to continue its efforts to protect and efficiently use water resources within a comprehensive framework.

Water Footprint	Unit	2024
Blue Water Footprint	m^3/year	260,418.31
Industrial Grey Water Footprint	m^3/year	3,596.52
Domestic Greywater Footprint	m^3/year	15,465.64
Rainwater Collection Capacity	m^3/year	31,391.73



Waste Management and Circular Economy

Er-Bakır contributes to the protection of natural resources by managing waste generated during production processes in line with environmental sustainability goals. All waste generated during production processes is separated at source and returned to the economy through recycling, reuse, and energy recovery methods.

The company holds a Basic Level Zero Waste Certificate and continuously develops its waste management strategies in line with this certificate. In 2024, nearly 99% of the total 1,149 tons of waste generated was directed to recovery processes, thereby minimizing the amount of waste sent to disposal sites. During the waste management process, hazardous and non-hazardous waste are tracked separately and transported to disposal or recovery facilities in accordance with legal regulations through licensed carriers. In the management of hazardous waste, ISO 14001 Environmental Management System standards are applied and regular reporting is carried out to protect the environment and human health.

One of the most effective ways to protect natural resources in the copper industry is to incorporate recycled copper into production processes. This approach significantly reduces both primary raw material use and mining-related environmental impacts. In 2024, the recycled copper ratio was 18%, calculated based on total wire rod production. This contributed to reducing both carbon emissions and energy consumption, strengthening the sustainable production model based on the circular use of copper.

Various types of waste generated from production processes, such as scrap metal, plastic spools, packaging waste, emulsion sludge, and scrap cable, were recycled rather than simply disposed of, generating an economic benefit of 12 million TL. Er-Bakır's waste management strategy aims to minimize environmental impacts while ensuring the efficient use of resources. The evaluation of every recyclable material is seen as a fundamental requirement of sustainable production and contributes to fulfilling environmental responsibilities for the future.



Waste Type	Unit	2022	2023	2024
Hazardous Waste	Ton	963	742	771.57
Non-Hazardous Waste	Ton	297.21	339.75	377.60
Total Waste	Ton	1,260.33	1,081.40	1,149.17
Disposal Method	**Unit**	**2022**	**2023**	**2024**
Recovery	Ton	1,260.28	1,081.34	1,149.17
Other Disposal Method	Ton	0.053	0.057	0.068



RESPONSIBLE VALUE CHAIN



Ethics and Compliance

Er-Bakır's corporate values are based on the principles of integrity, transparency, accountability, and trust. The company conducts its business processes and relationships with all stakeholders in accordance with ethical values and considers this approach an indispensable element of sustainable growth. In the business world, keeping one's word is considered the most important indicator of character and a reliable commitment for Er-Bakır.

Transparency is fundamental to all of the company's activities, and a zero-tolerance policy is applied to corruption, bribery, and conflicts of interest. Employees and representatives are required to comply fully with the laws and regulations in force in the regions where they operate. Legal compliance is considered a minimum standard for the company, and the necessary sensitivity is shown to protect ethical values.

Er-Bakır treats its employees and prospective employees within the framework of the principle of equality; no discrimination is made on the basis of gender, age, ethnic origin, political opinion, marital status, or similar reasons. The company takes a firm stance against child labor and forced labor practices, and a zero-tolerance policy is applied at all facilities
.
Confidentiality in commercial relations is one of the company's fundamental ethical values. Employees are obliged to protect the information and documents they access in the course of their duties. This information can only be accessed by authorized persons and is not shared with third parties or the public. The same sensitivity applies to information belonging to competing companies.

Employees are prohibited from establishing direct or indirect commercial relationships with the company on behalf of themselves or their first- and second-degree relatives. Should such a situation arise, the Board of Directors is informed before the transaction takes place and the necessary approval is obtained. Furthermore, it is prohibited for Er-Bakır employees and their first and second degree relatives to accept bribes, improper payments, loans, or gifts of commercial value from companies or individuals doing business with the company. Except for generally accepted symbolic gifts, offers that could influence business relationships are not accepted.

If any violations of the ethical rules are detected, employees are expected to report them to their managers, the Human Resources Department, or the General Manager. Situations that must be reported include bribery, corruption, financial irregularities, harassment, discrimination, forced labor, and environmental and safety violations.

Employees who report violations in good faith are protected and will not be subject to any sanctions. Reports are evaluated confidentially and investigated fairly.

Sustainable Supply Chain

Er-Bakır prioritizes quality, efficiency, and environmental responsibility in the management of its supply chain, creating a strong, reliable, and sustainable structure. With this approach, in addition to establishing a strong and reliable supply network, long-term partnerships are built, and trust, transparency, and sustainability are fundamental in every link of the production chain.

All steps, from supplier selection to evaluation and development, are carried out within the framework of defined rules. Each supplier is comprehensively evaluated on issues such as quality, environmental impact, occupational health and safety, ethical principles, and legal compliance.

Supporting local suppliers is one of the cornerstones of the sustainable supply chain approach. Working with local suppliers contributes to regional development and supports the reduction of the carbon footprint by reducing the environmental impact of logistics operations.

> In 2024, **92%** of total suppliers are local suppliers.



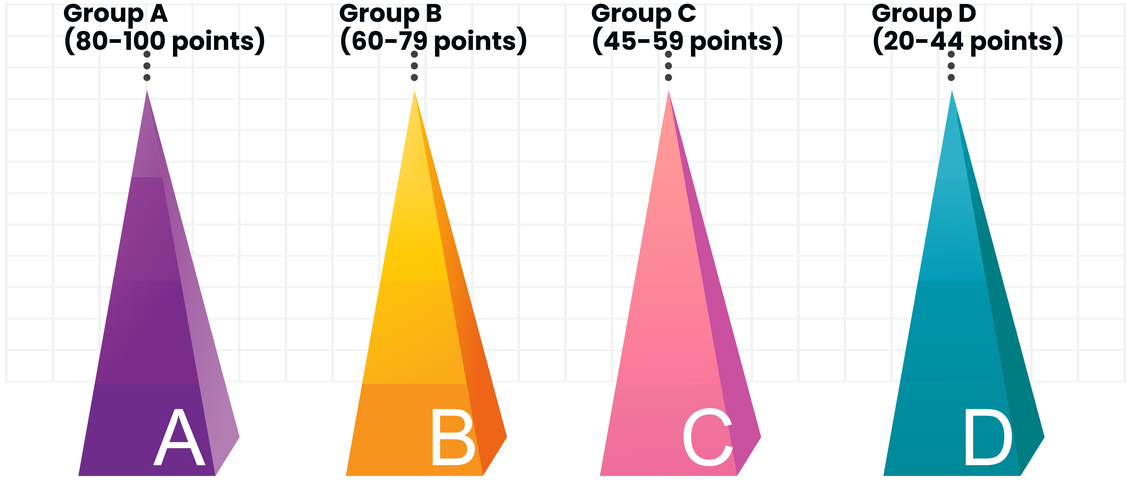
Supplier Evaluation System

Er-Bakır's supplier evaluation system is a multi-layered structure based on objective and measurable criteria. This system is implemented to analyze the current status of suppliers, identify their strengths and areas for improvement, and create a roadmap for sustainable partnerships. Evaluations are grouped under five main headings.

Quality	Compliance of products and services with specified standards, quality management system certifications (ISO 9001, IATF 16949, etc.).
Environment, Energy, and Occupational Safety	Management of environmental impacts, compliance with occupational health and safety standards, energy efficiency initiatives.
Financial Stability	The supplier's financial strength, financial sustainability, and economic risk management capabilities.
Delivery Performance	Adherence to deadlines, shipment continuity, success rate in logistics planning.
Ethics and Social Responsibility	Human rights, ethical rules, policies against child labor and forced labor, corporate social responsibility practices.

Each criterion is weighted according to the company's strategic priorities and industry standards and rated using a star system. This results in a clear score that reflects the performance of each supplier.

Two basic scoring principles are used in the evaluation process. The Company Importance Score is calculated based on the impact of the supplied product or service on production processes and its strategic criticality, while the Performance Score is determined based on delivery continuity, error rates, customer feedback, and quality control data. Suppliers are divided into A, B, C, and D groups based on the combination of these two scores.



Suppliers in the high-risk group or those of strategic importance are subject to on-site audits at least once a year. Audits consist of preparation, field inspection, scoring and reporting, follow-up, and improvement stages. In the preparation phase, past performance data and the scope of supply are analyzed to prepare the audit plan. During the field inspection, production processes, environmental practices, occupational health and safety measures, and quality control systems are observed in detail. The findings are integrated into the performance system and reported, and specific improvement plans are created for suppliers with low scores.

Special development programs are implemented to improve the performance of suppliers in groups C and D. These programs include training activities, technical consulting, projects aimed at reducing environmental impacts, and energy efficiency incentives.

Er-Bakır views the supplier evaluation system as the cornerstone of a sustainable and competitive supply chain. Supplier performance is measured transparently, environmental and social responsibility awareness is strengthened, and long-term, trust-based partnerships are established.



Supply Management	Unit	2022	2023	2024
Number of Local Suppliers	Number	685	729	765
Share of Local Suppliers in Procurement Budget	Ratio	90%	90%	92%

Significant Changes Regarding Suppliers	2022	2023	2024
Number of Suppliers with Terminated Business Relationships	73	73	12
Number of New Suppliers	241	282	288

Suppliers Audited Based on Environmental and/or Social Criteria	2022	2023	2024
Number of Suppliers Audited Against Environmental Criteria	3	3	3
Number of Suppliers Audited Against Social Criteria	3	3	3
Number of Suppliers with Unsuccessful Audit Results	0	0	0

Product Quality and Customer Satisfaction

Er-Bakır always prioritizes product safety, high quality, and customer satisfaction. Aiming to provide the best service to its customers, the company implements quality control mechanisms that comply with international standards at every stage, from production processes to final product delivery.

Strict quality controls are carried out throughout the supply chain to ensure that products are manufactured safely, flawlessly, and with high performance. Risks that may arise during the use or transportation of each product are carefully analyzed, and accurate and reliable information is provided to customers. Er-Bakır's customer information systems are designed to cover all necessary information for the safe use and increased efficiency of its products.

Product Safety and Customer Information Practices

Er-Bakır has developed specific procedures to ensure product safety and minimize potential environmental impacts. The recycling and minimization of waste that may arise during the proper transportation, storage, and use of products is of critical importance.



Packaging Recycling and Waste Management

Instructions are provided to customers to ensure the proper recycling of product packaging and shipping materials, supporting sustainability goals in these processes. Resource efficiency is increased by encouraging the recycling of materials such as plastic reels, pallets, and steel baskets.

Product Storage and Use

Customers are informed about preventing risks that may arise during product storage and use. Measures to protect against moisture, dust, and chemical vapors are shared to prevent oxidation and deformation on product surfaces.

Product Receipt and Entry Control

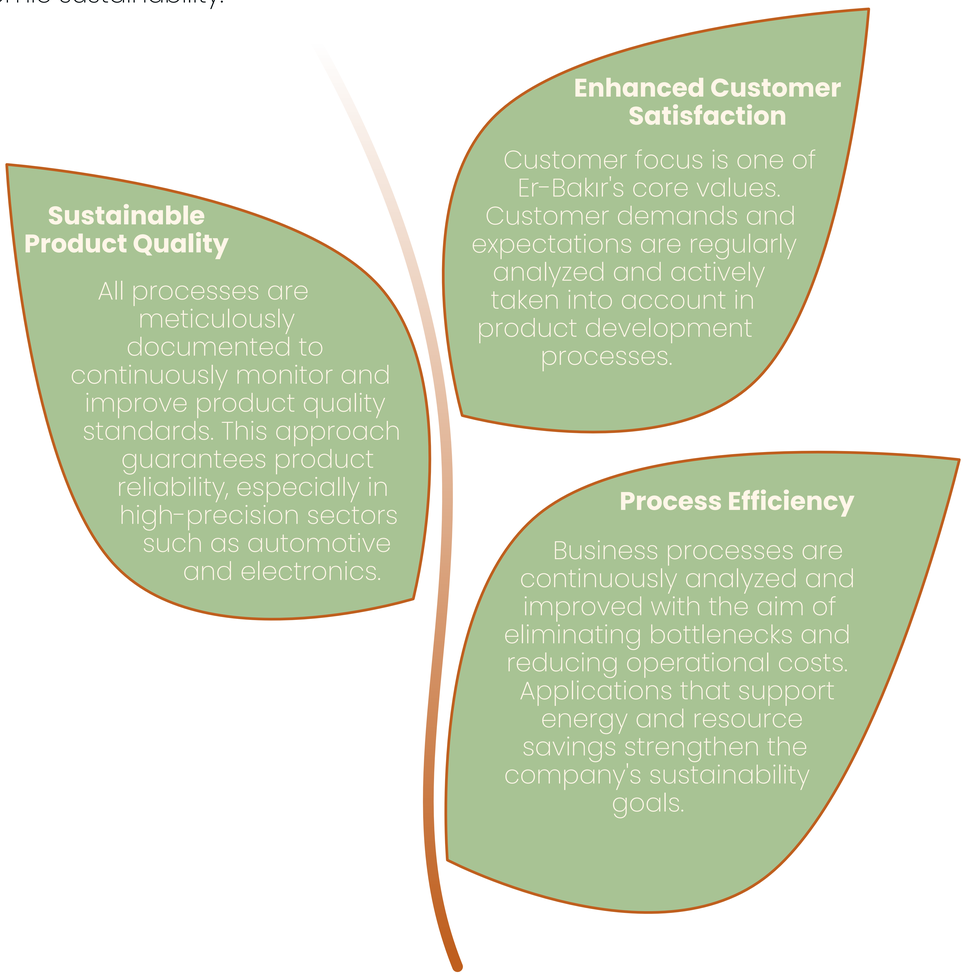
Detailed control processes are carried out to identify any possible damage that may occur during product delivery to customers. Problems observed during the product receipt stage are recorded with photographs and reports, and the relevant improvement steps are quickly implemented.

Complaint and Return Management

Feedback and complaints from customers are systematically recorded, analyzed, and resolved as quickly as possible. Customers are provided with fast and effective support against problems such as impact and deformation that may occur during product shipment.

Operational Excellence Shaped by International Standards

Er-Bakır shapes its operations according to international standards, pursuing sustainable production and customer satisfaction simultaneously. The management systems established support not only quality but also environmental, social, and economic sustainability.



Product Safety Directive and Management Approach

Er-Bakır has developed comprehensive Product Safety Guidelines to implement international best practices in product safety. The guidelines provide a risk management framework covering the entire product life cycle, including technical processes as well as customer information and transparent communication mechanisms.

- It enables the identification of all risks that may arise during product design, production, transportation, use, and recycling processes.
- It ensures that products offered to customers are fully compliant with national and international legal regulations.
- It ensures that post-market customer complaints, warranty claims, and potential nonconformities are quickly evaluated and that necessary corrective actions are implemented.
- It supports the identification of potential risks and the implementation of preventive measures through regular control and analysis during the production process.

R&D AND INNOVATION

R&D and Innovation

Er-Bakır gives strategic priority to R&D and Innovation activities in line with its goals of sustainable growth and sectoral leadership. The company's R&D Center aims to contribute to environmental, economic, and operational sustainability by developing innovative solutions in copper wire production. In this context, R&D activities are carried out within a comprehensive vision to develop products and processes, increase production efficiency, and enhance global competitiveness.

R&D projects are carried out under three main headings: basic research, product development, and process development.

01

Basic research projects

focus on discovering new technologies used in copper wire production and increasing scientific knowledge.

02

Product development projects

aim to design and commercialize new, high-performance, value-added products that meet customer needs.

03

Process development projects

on the other hand, aim to optimize resource utilization, save energy, and reduce environmental impacts by increasing efficiency in production processes.

The overall objective of R&D projects is to increase efficiency, strengthen sustainability, reduce costs, improve product quality, expand the product range, and contribute to the company's strategic goals by optimizing copper wire production processes. These efforts create a competitive advantage in the industry by developing more durable, high-quality, high-performance, and low-cost copper wires.

The expected overall benefits of R&D projects include lower production costs, increased energy efficiency, reduced waste and scrap rates, minimized environmental impact, and improved technology levels. In addition, the goal is to increase customer satisfaction with innovative products, open up new markets, and achieve long-term economic gains.

A total budget of 33 million TL has been allocated for R&D projects carried out throughout 2024. This budget has been allocated to projects aimed at improving product quality, optimizing production processes, and developing innovative solutions focused on sustainability.

R&D activities also support sustainability goals. The development of energy-efficient production methods, process innovations that reduce carbon intensity, and waste management solutions are implemented as part of the company's environmental responsibility approach. Process development efforts aim to reduce carbon intensity in products, decrease error rates, and minimize refining intensity to create low-carbon production processes.

Digitalization has been positioned as an important element of the innovation strategy. In this context, a pilot project was carried out to develop an online platform that measures the carbon emissions of operating machines in detail, records the data, and allows users to access this data visually. The project was implemented on a selected machine to evaluate the system's performance and the accuracy of its outputs. The project budget amounted to 2 million TL.

Er-Bakır also strengthens its R&D and innovation investments through start-up collaborations and joint projects with universities. Collaborations with two different start-ups in 2024 have yielded significant gains in the areas of digitalization and energy efficiency. Furthermore, projects carried out with universities aim to integrate innovative technologies in the sector into production processes.

Employee Participation and Reward System

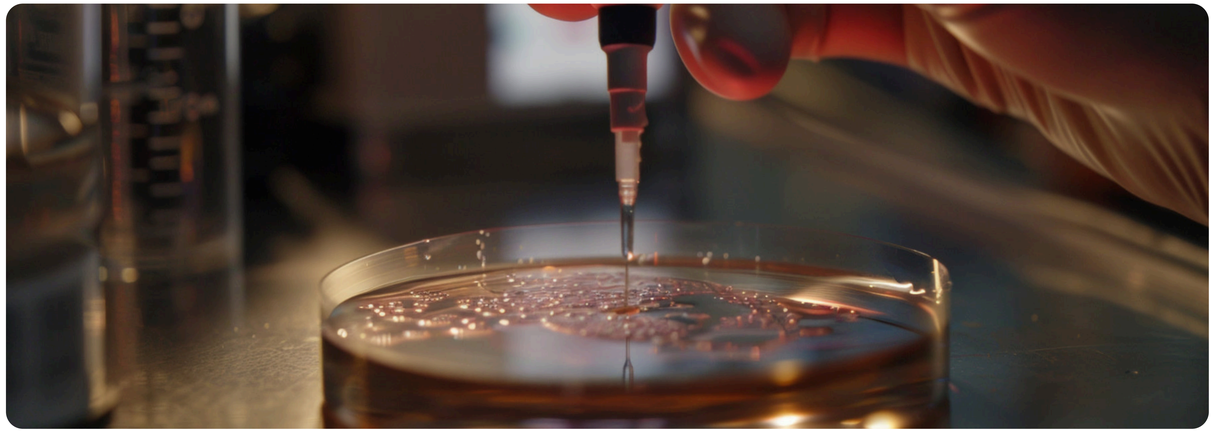
The Suggestion Evaluation System is actively used to spread the culture of innovation within the company. This system, which encourages employees to get involved in processes, ensures that ideas that increase efficiency are collected and rewarded. Successful projects are evaluated by the R&D Center, and ideas that contribute to the sustainability strategy are prioritized for implementation. To increase employee motivation, successful project owners are rewarded based on success criteria such as patent/utility model registration, industrial design registration, scientific article publications, and international conference presentations.

During special project sessions held throughout the year, employees present their new ideas, which determine the direction of innovation efforts to be carried out in future periods. As of 2024, a team of 25 R&D experts is at the center of all these efforts.



R&D Employment	Unit	2022	2023	2024
Number of R&D employees	Person	23	24	25

Collaborative Projects	Collaboration Scope
CuMg0.4 Alloy Wires for Use in the Medical Sector	Start-up Collaboration - AKSÖZ R&D ENGINEERING
AGV System Design and Integration	Start-up Collaboration - MODOYA
Carbon Footprint Platform	Start-up Collaboration - KAPSÜL DX
Investigation of the Effect of Dual-Channel Open Die Forging (DKDF) Application on the Microstructure and Mechanical Properties of Copper-Tin and Copper-Silver Alloy Samples	University-Industry Collaboration - Izmir Katip Celebi University



High Value-Added Production

Supported by Denizli under the Technology-Focused Industrial Initiative Program of the Ministry of Industry and Technology of the Republic of Türkiye, this is the first and only project aimed at the production of solder-coated copper ribbon (PV Ribbon) used in solar energy panels.

With this project, this product group has been produced with local resources, reducing technology and product dependency, and introducing environmentally friendly and innovative production methods to the sector. The work, which integrates R&D and investment activities, has contributed to increasing the localization rate in the renewable energy sector and developing technology-based production capacity.

With this project:

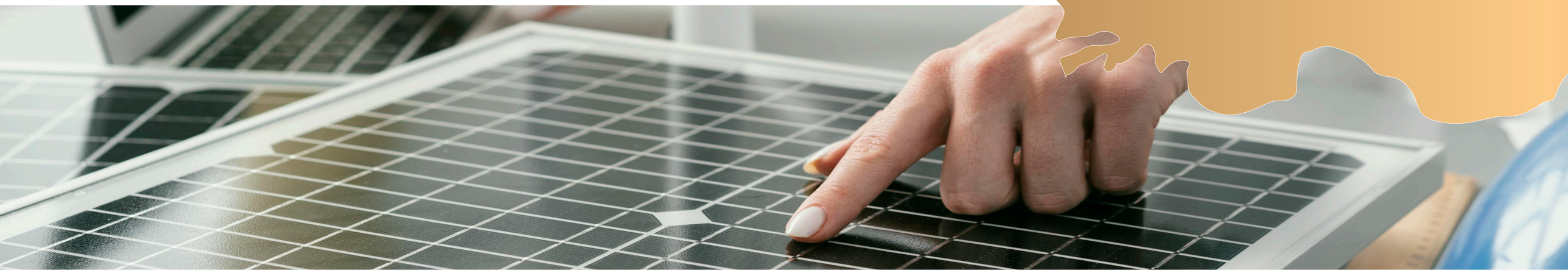
- Solder-coated copper ribbon **(PV Ribbon)** used in solar panels has been produced using domestic resources.
- Türkiye's dependence on technology and products **has been reduced**.
- Innovative and environmentally friendly production technologies **have been introduced** to the sector.

The first and only project supported from Denizli

We are proud to contribute to Türkiye's technology-driven growth through the **"Technology-Focused Industrial Initiative Program."**

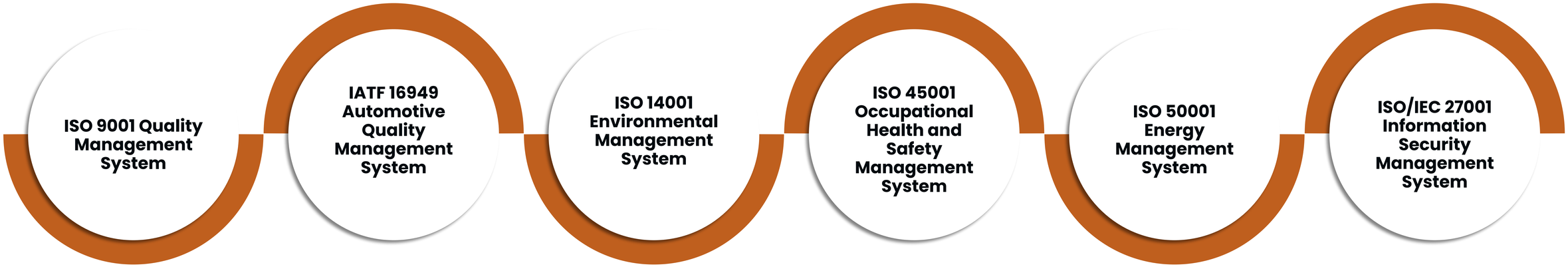
173 Projects

101 Billion ₺ Investment



Quality Management Systems

Er-Bakır implements integrated management systems in its production and management processes that comply with international standards. These systems ensure continuous customer satisfaction and enable the comprehensive management of environmental, social, and corporate responsibilities.



Production processes are carried out in accordance with quality standards, and product reliability and meeting customer expectations are supported by a continuous improvement approach.

The system, implemented to meet the high precision and safety requirements of the automotive industry, ensures that products comply with global automotive standards.

Environmentally friendly production processes are implemented with the aim of efficient use of natural resources and reduction of environmental impacts.

Employee safety is a priority. Reducing risks, preventing workplace accidents, and ensuring safe working conditions are among the fundamental principles.

Energy performance indicators are regularly monitored, and efficiency-focused improvements optimize resource use and reduce the carbon footprint.

Information security processes are implemented to protect customer and company data; data integrity, confidentiality, and access control are ensured.


SOCIAL PERFORMANCE

Human Resources

Employees: Our Most Valuable Asset

Er-Bakır views its employees as the fundamental driving force behind its sustainable success and places human resources at the center of its long-term growth strategy. Human resources practices are designed to unlock employees' potential, support their development, and strengthen the corporate culture.

Dynamic and Flexible Organizational Structure

The company's organizational structure is dynamic and flexible, enabling it to adapt quickly to changing market conditions. This structure creates a competitive advantage in the industry and strengthens the company's leading position . Human resources strategies are designed to support individual development and organizational competencies.

Equality and Diversity

Er-Bakır is committed to creating an inclusive and equitable working environment. Diversity is valued, and innovative solutions based on different perspectives are encouraged. All employees are offered equal opportunities, and a transparent and fair approach is adopted in career development processes.

Employee Development

Driven by a vision to build a strong employer brand, Er-Bakır attracts qualified talent to the organization and increases the loyalty of its existing employees. Training and development programs support employees' technical and personal competencies, providing them with the opportunities they need to achieve their career goals.

Compensation Policies and Social Benefits

A fair and competitive compensation policy is implemented to increase employee satisfaction and well-being. The quality of life of employees is improved through health, maternity, marriage, and education benefits, holiday allowances, and other social benefits.

Open Communication and Appreciation Culture

At Er-Bakır, open communication and a strong culture of cooperation are at the forefront. Employees' opinions and suggestions are valued, and their active participation in decision-making processes is ensured. Innovative ideas are rewarded to increase motivation, and employee loyalty is strengthened through recognition and reward mechanisms.

Sustainable Corporate Culture

A people-oriented management approach forms the basis of the corporate culture. Employee well-being, participation, and development are supported to create a strong environment of commitment for long-term success.



Occupational Health and Safety

Er-Bakır conducts its occupational health and safety (OHS) activities in full compliance with national legislation and international standards, viewing the creation of a safe and healthy working environment for all employees as a top priority. The OHS approach is based on identifying risks at source, continuously monitoring technological developments, and supporting them with collective or personal protective measures.

With the QDMS Incident Module, which was launched at the beginning of 2024, employees can instantly report hazardous situations and near misses to the system. Reports are analyzed by the OHS Unit, ensuring rapid action and effective management of improvement processes.

OHS processes are carried out by professional teams with Class A and B expertise certificates. Team members are competent in areas such as Nebosh IGC, Fire Training, Occupational Safety Expert Training, Training of Trainers, Root Cause Analysis of Accidents, First Aid, and ISO 14001, ISO 45001, and ISO 9001 Internal Auditing.

Continuous Improvement and Employee Participation

The foundation of a safe working culture is not only procedures but also the active participation of employees. Through the Suggestion System and Incident Module, employees report risks and contribute directly to the suggestion and solution development processes. The OHS Committee Meetings, held every two months under the leadership of the CTO, serve as a corporate evaluation mechanism where incidents are analyzed and the measures taken are systematically monitored.

Health Surveillance and Emergency Management

Health monitoring of personnel working in casting and chemical processes is carried out periodically by the workplace physician and health team. As part of emergency preparedness, three defibrillators are located on site, and more than 100 employees are authorized as first responders and receive regular training to keep their knowledge up to date.

Training and Awareness Activities

Workplace safety awareness is supported not only by mandatory training but also through digital platforms and field applications. Access to on-the-job and annual training is provided through the Online Training Portal, while awareness is raised through interactive applications in field training. In addition, awareness activities are carried out in collaboration with public institutions and non-governmental organizations on topics such as stress management, combating addiction, healthy living, and preventing violence against women.



Social Contributions and Social Responsibility

Corporate Social Responsibility

Er-Bakır, which has made significant contributions to both regional and national economic development since its establishment, continues its social responsibility projects by taking social expectations into account. The company continues to contribute to the development of society and create value together with its stakeholders through projects ranging from education to the environment, culture, and social solidarity.

Er-Bakır Science High School

Completed in 1999 and transferred to the Ministry of National Education, the school was established with the aim of training future scientists. Today, with approximately 500 students enrolled, Er-Bakır Science High School has become a source of inspiration that strengthens young people's interest in science. The "Atatürk Mathematics and Science Olympiads," held since 2006, continue as an exemplary tradition throughout the country in the pursuit of discovering young minds.



Er-Bakır SAK (Responsibility and Activity Club)

The Responsibility and Activity Club, established with the voluntary participation of employees, supports a culture of collaborative production and strengthens social responsibility awareness through cultural and sporting activities. Club activities are shaped by the voluntary contributions of employees; sometimes taking the form of book donations to a school library, sometimes environmental clean-ups, or blood donation campaigns. In this way, SAK goes beyond being just an events club, continuing its existence as a sharing platform that brings together sustainability values at Er-Bakır with human stories.



Social Housing Projects

Social housing projects are being developed to improve the quality of life of employees and to support a culture of solidarity outside of work life.

The first project, Bakırkent, completed in 2007, provided employees with a safe, spacious, and comfortable living area. With its extensive green areas, children's playgrounds, social facilities, and structure that strengthens neighborly relations, Bakırkent has created a quality living center where employees can come together outside of the work environment.

The foundation for the Bakırkent-2 project, which is a continuation of this experience, was laid in 2024. The project, consisting of a total of 208 residences, reflects modern Anatolian living culture with its horizontal architectural approach, earthquake-resistant structure, and garden residences. It is also designed to provide social and economic contributions to both employees and the region with its nursery, school, park, walking paths, and commercial areas.

Social Contributions

Acting with the understanding of adding value to society, the company has a corporate culture that not only supports social responsibility projects but also actively manages them. In 2024, the work carried out in different areas such as education, environment, culture, and employee welfare both supports social development and makes lasting contributions to a sustainable future.

Social Responsibility and Civil Society Collaborations

1st Denizli Excellence Summit:

Er-Bakır, the main sponsor of the summit organized by KalDer Denizli under the theme "Before It's Too Late," shared its vision in the areas of quality, sustainability, and management quality.

33rd Quality Congress of the Turkish Quality Association:

Er-Bakır contributed as a sponsor to the congress organized under the theme "Reloading."

Sustainability Slogan Contest:

In the slogan contest organized to internalize the sustainability approach, the phrase **"Quality in Copper Wire, Assurance in Sustainability"** stood out as a powerful statement that best expressed both the company's understanding of quality and its determination in sustainability.

Education and Support for Youth

2024 was a period in which Er-Bakır Science High School stood out with its national and international achievements.

Students achieved significant international success by winning first place in the International Mathematics Competition (The Centre for Education in Mathematics and Computing - CEMC) organized by the University of Waterloo in Canada.

In the same year, 18 students ranked among the top 1,000 in the YKS (University Entrance Exam) and a total of 25 degrees were obtained, demonstrating the school's academic success once again. These achievements were celebrated at a special ceremony, and the students who ranked were awarded.





Culture and Promotion

Er-Bakır showcases its production capabilities to the world through its participation in national and international fairs:

Düsseldorf Wire & Tube Fair:

At one of the most prestigious events in the copper wire industry, the company attracted attention with its innovative product portfolio and sustainable production approach.

Berlin InnoTrans Fair:

At this event showcasing products for the rail systems sector, high-tech solutions were shared with international participants.

In addition, the company actively participates in career fairs to meet young talents:

ITU Career Summit
Middle East Technical University Career Fair
Hacettepe University Career Fair
Ege Career Fair
DEU Career Summit
Yıldız Technical University Career Fair
TOBB Leadership Camp



Employee and Family Events

April 23 Event:

Employees and their children participated in a special event, enjoying a pleasant train ride from Denizli Train Station. Various games and activities were organized for the children, and the day was celebrated with great enthusiasm.

May 1 Picnic:

Employees and their families came together to share the joy of spending time together on a day filled with competitions, games, and music.

May 19 Walk:

The traditional May 19th Atatürk Commemoration, Youth and Sports Day march was held again this year.

August 30 Victory Day Event:

The traditional horse farm event, organized with the participation of employees and their families, was celebrated with great enthusiasm.

Wellness@Work Program:

Employees' physical and mental health is supported with 15-minute chair yoga sessions held twice a week.





Memberships and Partnerships

Er-Bakır, which operates in line with national and international standards, actively participates in various organizations and platforms to closely follow sectoral developments, encourage knowledge sharing, and support sustainability-focused transformation.

These partnerships strengthen environmental, social, and governance (ESG) performance and support a transparent, responsible, and innovative corporate structure. Regular reporting to global sustainability platforms such as CDP (Carbon Disclosure Project) and EcoVadis enables the progress in climate change and environmental management to be monitored at an international level.

Collaborations with local trade and industry organizations contribute to regional development and enable the development of joint solutions within the industrial ecosystem.

Member Organizations and Institutions

- CDP (Carbon Disclosure Project)
- EcoVadis (Sustainability Rating Platform)
- Denizli Chamber of Industry
- Denizli Chamber of Commerce
- Denizli Industrialists and Businessmen Association (DESİAD)
- Denizli Exporters' Association
- Aegean Exporters' Association
- Turkish Quality Association (KALDER)
- Turkish Human Resources Management Association (PERYÖN)
- Cable Manufacturers Association (KABLODER)
- Anatolia Rail Transportation Systems Cluster (ARUS)
- IWCC - International Copper Council
- IWMA - International Wire Machinery Association
- Pamukkale University

APPENDICES

Environmental Performance Indicators

Non-Renewable Direct Energy	Unit	2022	2023	2024
Gasoline	Liter	50,758	13,499	35,349
Diesel Fuel	Liter	48,219	44,282	30,249
Natural Gas	m^3	7,868,884	7,274,105	6,405,616
Oak Coal	kg	17,946	5,380	1,890

Non-Renewable Indirect Energy	Unit	2022	2023	2024
Electric	kWh	77,653,108	70,851,224	60,011,979
Steam	kWh	15,980,300	17,910,200	15,779,681

Energy Supplied from Renewable Energy Sources	Unit	2022	2023	2024
Solar	kWh	0	2,166,000	8,023,650

Greenhouse Gas Emissions	Unit	2022	2023	2024
Scope 1	t CO_2 e	13,928	14,644	12,678
Scope 2	t CO_2 e	35,728	32,784	29,473
Scope 3	t CO_2 e	1,061,421	927,109	863,523

Energy Obtained from Waste Heat	Unit	2022	2023	2024
Steam	kWh	-	-	396,231.38

Environmental Performance Indicators

Waste by Type	Unit	2022	2023	2024
Hazardous Waste	Ton	963	742	771.57
Non-Hazardous Waste	Ton	297.21	339.75	377.60
Total Waste	**Ton**	**1,260.33**	**1,081.40**	**1,149.17**

Waste by Disposal Method	Unit	2022	2023	2024
Recycling	Ton	1,260.28	1,081.34	1,149.10
Other Disposal Method	Ton	0.053	0.057	0.068

Water Consumption	Unit	2022	2023	2024
Total Water Consumption	m^3	256,004	241,500	260,418

Water Footprint	Unit	2022	2023	2024
Blue Water Footprint	m^3/year	-*	-*	260,418.31
Industrial Grey Water Footprint	m^3/year	-*	-*	3,596.52
Domestic Grey Water Footprint	m^3/year	-*	-*	15,465.64
Rainwater Collection Capacity	m^3/year	-*	-*	31,391.73

*Water Footprint calculations have been initiated as of 2024.

Social Performance Indicators

Labor

By Employment Type	Unit	2022	2023	2024
White-collar - Female	Person	43	42	44
White-collar - Men	Person	155	142	125
Blue-collar - Female	Person	0	1	3
Blue-collar - Male	Person	676	705	682
TOTAL		**874**	**890**	**854**

By Contract Type	Unit	2022	2023	2024
Permanent - Female	Person	43	43	47
Permanent - Male	Person	831	847	807
Fixed-term - Female	Person	0	0	0
Fixed-term - Male	Person	0	0	0
TOTAL		**874**	**890**	**854**

By Gender	Unit	2022	2023	2024
Male	Person	831	847	807
	Ratio	95%	95%	94%
Female	Person	43	43	47
	Ratio	5%	5%	6%
TOTAL		**874**	**890**	**854**

Social Performance Indicators

By Age	Unit	2022	2023	2024
18 - 30 Age Group	Female	11	14	15
	Ratio	1%	0%	0%
	Male	200	243	215
	Ratio	23%	27%	25%
31 - 40 Age Group	Female	22	19	22
	Ratio	3%	2%	3%
	Male	374	367	342
	Ratio	43%	41%	40%
41–50 Age Group	Female	8	8	7
	Ratio	1%	1%	1%
	Male	183	173	198
	Ratio	21%	19%	23%
51–60 Age Group	Female	2	2	3
	Ratio	0%	0%	0%
	Male	60	51	41
	Ratio	7%	6%	5%
Above 60 Age Group	Female	0	0	0
	Ratio	0%	0%	0%
	Male	14	13	11
	Ratio	2%	1%	1%
TOTAL		**874**	**890**	**854**

Social Performance Indicators

Other Groups	Unit	2022	2023	2024
Employees with Disabilities	Female	0	2	2
	Ratio	0%	0%	0%
	Male	27	21	21
	Ratio	3%	2%	2%

By Management Category	Unit	2022	2023	2024
Senior Management	Female	2	2	3
	Ratio	0%	0%	0%
	Male	25	22	29
	Ratio	3%	2%	3%
Middle Management	Female	8	8	8
	Ratio	1%	1%	1%
	Male	22	20	17
	Ratio	3%	2%	2%
Other	Female	33	33	36
	Ratio	4%	4%	4%
	Male	784	805	761
	Ratio	90%	90%	89%
TOTAL		**874**	**890**	**854**

Social Performance Indicators

Employment and Turnover	Unit	2022	2023	2024
New Hires - Total	Person	121	105	70
White-collar	Person	29	17	12
Blue-collar	Person	92	88	58
Leavers - Total	Person	72	107	94
White-collar	Person	20	16	12
Blue-collar	Person	52	91	82

By Gender	Unit	2022	2023	2024
Male - New Hires	Person	111	99	64
	Ratio	91.74%	94.29%	91.43%
Male - Leavers	Person	68	105	92
	Ratio	94.44%	98.13%	97.87%
Female - New Hires	Person	10	6	6
	Ratio	8.26%	5.71%	8.57%
Female - Leavers	Person	4	2	2
	Ratio	5.56%	1.87%	2.13%

Social Performance Indicators

By Age	Unit	2022	2023	2024
18 - 30 Age Group - New Hires	Person	95	80	48
	Ratio	78.51%	76.19%	68.57%
18 - 30 Age Group - Leavers	Person	27	52	34
	Ratio	37.50%	48.60%	36.17%
31 - 40 Age Group - New Hires	Person	25	23	20
	Ratio	20.66%	21.90%	28.57%
31 - 40 Age Group - Leavers	Person	25	15	20
	Ratio	34.72%	14.02%	21.28%
41 - 50 Age Group - New Hires	Person	0	2	1
	Ratio	0.00%	1.90%	1.43%
41 - 50 Age Group - Leavers	Person	11	22	30
	Ratio	15.28%	20.56%	31.91%
51 - 60 Age Group - New Hires	Person	1	0	1
	Ratio	0.83%	0.00%	1.43%
51 - 60 Age Group - Leavers	Person	8	18	9
	Ratio	11.11%	16.82%	9.57%
Above 60 Age Group - New Hires	Person	0	0	0
	Ratio	0.00%	0.00%	0.00%
Above 60 Age Group - Leavers	Person	1	0	1
	Ratio	1.39%	0.00%	1.06%

Social Performance Indicators

All Training (By Type)	Unit	2022	2023	2024
Professional Development	Hours	10,760	16,226	17,671
Personal Development	Hours	494	467.3	691
Total Training Hours	**Hours**	**11,254**	**16,694**	**18,362**

Employee Engagement	Unit	2022	2023	2024
Employee Engagement & Satisfaction Score (Conducted every two years)	Ratio	-	58%	-
Success Rate of Orientation & Retention Program for Newly Hired Employees (0-2 Years)	Ratio	64.46%	60%	78.72%

Supply Chain Management	Unit	2022	2023	2024
Number of Local Suppliers	Number	685	729	765
Percentage of Local Suppliers	Ratio	90%	90%	92%
Share of Local Suppliers in Procurement Budget	Ratio	90%	90%	92%
Number of Suppliers with Terminated Business Relationships	Number	73	73	12
Number of New Suppliers	Number	241	282	288
Number of Suppliers Audited Against Environmental Criteria	Number	3	3	3
Number of Suppliers Audited Against Social Criteria	Number	3	3	3

Social Performance Indicators

Occupational Health and Safety

Accidents	Unit	2022	2023	2024
Near Miss Cases	Units/Year	15	14	51
Accident Frequency Rate	Rate	40.51	35.44	44.64
Fatalities	Number/Year	0	0	0

Lost Days	Unit	2022	2023	2024
Lost Day Rate (LDR)	Rate	0.44	0.71	0.52
Absenteeism Rate (AR)	Rate	72.98	70.11	68.75

Occupational Health and Safety Training	Unit	2022	2023	2024
Number of Company Employees	Person	885	918	836
Number of Subcontractor Employees	Person	23	25	26
Total Number of Participants	**Person**	**908**	**943**	**862**
Company Employees	Person*Hour	1,259,043	1,269,797	1,254,618
Total OSH Training	**Person*Hour**	**4,372**	**5,003**	**7,241**

GRI Content Index

GRI STANDARD	DISCLOSURE	REPORTING LOCATION	PAGE NUMBER
General Disclosures			
GRI 2: General Disclosures 2021	**GRI 2: 1 Organization and Reporting Practices**		
	2-1 Organizational details	About The Report	4
	2-2 Entities included in the organization's sustainability reporting	About The Report	4
	2-3 Reporting period, frequency and contact point	About The Report	4
	2-4 Restatements of information	About The Report	4
	2-5 External assurance	No external audit has been conducted.	
	GRI 2: 2 Operations and Employees		
	2-6 Activities, value chain and other business relationships	About Er-Bakır	9,10
	2-7 Employees	Human Resources	59
	2-8 Workers who are not employees	Human Resources	59
	GRI 2: 3 Governance		
	2-9 Governance structure and composition	Governance Structure	20
	2-10 Nomination and selection of the highest governance body	Governance Structure	20
	2-11 Chair of the highest governance body	Governance Structure	20
	2-12 Role of the highest governance body in overseeing the management of impacts	Governance Structure	20
	2-13 Delegation of responsibility for managing impacts	Governance Structure	20
	2-14 Role of the highest governance body in sustainability reporting	Governance Structure	20

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GRI STANDARD	DISCLOSURE	REPORTING LOCATION	PAGE NUMBER
General Disclosures			
GRI 2: General Disclosures 2021	2-15 Conflicts of interest	Ethics and Compliance	47
	2-16 Communication of critical concerns	Governance Structure , Stakeholder Engagement , Ethics and Compliance	20,21,47
	2-17 Collective knowledge of the highest governance body	Governance Structure	20
	2-18 Evaluation of the performance of the highest governance body	Governance Structure	20
	2-19 Remuneration policies	Human Resources	59
	2-20 Process to determine remuneration	Human Resources	59
	GRI 2: 4 Strategy, Policies, and Practices		
	2-22 Statement on sustainable development strategy	Sustainability Strategy	18,19
	2-23 Policy commitments	Ethics and Compliance ,Human Resources	47,59
	2-24 Embedding policy commitments	Ethics and Compliance ,Human Resources	47,59
	2-25 Processes to remediate negative impacts	Ethics and Compliance ,Human Resources	47,59
	2-26 Mechanisms for seeking advice and raising concerns	Ethics and Compliance	47
	2-27 Compliance with laws and regulations	Ethics and Compliance	47
	2-28 Membership associations	Memberships and Collaborations	64
	GRI 2: 5 Stakeholder Engagement		
	2-30 Collective bargaining agreements	Stakeholder Engagement	21

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GRI STANDARD	DISCLOSURE	REPORTING LOCATION	PAGE NUMBER
Material Topics			
GRI 3: Material Topics 2021	3-1 Process to determine material topics	Materiality Analysis	22
	3-2 List of material topics	Materiality Analysis	23
Economic Performance			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 201: Economic Performance 2016	201-1 Direct economic value generated and distributed	Er-Bakır in 2024	13
	201-2 Financial implications and other risks and opportunities due to climate change	Sustainability and Climate-Related Risks and Opportunities	25-35
Procurement Practices			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 204: Procurement Practices 2016	204-1 Proportion of spending on local suppliers	Sustainable Supply Chain	48,49,50
Anti-corruption			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 205: Anti-corruption 2016	205-1 Operations assessed for risks related to corruption	Ethics and Compliance	47
	205-2 Communication and training about anti-corruption policies and procedures	Ethics and Compliance	47
	205-3 Confirmed incidents of corruption and actions taken	There have been no confirmed cases of corruption or any lawsuits or legal penalties related to corruption within the organization or among its business partners.	

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GRI STANDARD	DISCLOSURE	REPORTING LOCATION	PAGE NUMBER
Anti-competitive Behavior			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 206: Anti-competitive Behavior 2016	206-1 Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	Ethics and Compliance	47
Materials			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 301: Materials 2016	301-1 Materials used by weight or volume	Waste Management and Circular Economy, Environmental Performance Indicators	45,67
	301-2 Recycled input materials used	Waste Management and Circular Economy, Environmental Performance Indicators	45,67
	301-3 Reclaimed products and their packaging materials	Waste Management and Circular Economy, Environmental Performance Indicators	45,67

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GRI STANDARD	DISCLOSURE	REPORTING LOCATION	PAGE NUMBER
Energy			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 302: Energy 2016	302-1 Energy consumption within the organization	Energy Management ,Environmental Performance Indicators	40,41,66
	302-3 Energy intensity	Energy Management ,Environmental Performance Indicators	40,41,66
	302-4 Reduction of energy consumption	Energy Management ,Environmental Performance Indicators	40,41,66
	302-5 Reductions in energy requirements of products and services	Energy Management ,Environmental Performance Indicators	40,41,66
Water and Effluent			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 303: Water and Effluents 2018	303-1 Interactions with water as a shared resource	Water Management , Environmental Performance Indicators	43,44,67
	303-2 Management of water discharge-related impacts	Water Management , Environmental Performance Indicators	43,44,67
	303-3 Water withdrawal	Water Management , Environmental Performance Indicators	43,44,67
	303-4 Water discharge	Water Management , Environmental Performance Indicators	43,44,67
	303-5 Water consumption	Water Management , Environmental Performance Indicators	43,44,67

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GRI STANDARD	DISCLOSURE	REPORTING LOCATION	PAGE NUMBER
Emissions			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions	Climate Change and Emissions Management , Environmental Performance Indicators	38,39,66
	305-2 Energy indirect (Scope 2) GHG emissions	Climate Change and Emissions Management , Environmental Performance Indicators	38,39,66
	305-3 Other indirect (Scope 3) GHG emissions	Climate Change and Emissions Management , Environmental Performance Indicators	38,39,66
	305-5 Reduction of GHG emissions	Climate Change and Emissions Management	38,39

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GRI STANDARD	DISCLOSURE	REPORTING LOCATION	PAGE NUMBER
Waste			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 306: Waste 2020	306-1 Waste generation and significant waste-related impacts	Waste Management and Circular Economy, Environmental Performance Indicators	45,67
	306-2 Management of significant waste-related impacts	Waste Management and Circular Economy, Environmental Performance Indicators	45,67
	306-3 Waste generated	Waste Management and Circular Economy, Environmental Performance Indicators	45,67
	306-4 Waste diverted from disposal	Waste Management and Circular Economy, Environmental Performance Indicators	45,67
	306-5 Waste directed to disposal	Waste Management and Circular Economy, Environmental Performance Indicators	45,67
Supplier Environmental Assessment			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 308: Supplier Environmental Assessment 2016	308-1 New suppliers that were screened using environmental criteria	Sustainable Supply Chain	48,49,50
	308-2 Negative environmental impacts in the supply chain and actions taken	Sustainable Supply Chain	48,49,50

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GRI STANDARD	DISCLOSURE	REPORTING LOCATION	PAGE NUMBER
Employment			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	Human Resources , Social Performance Indicators	59,71,72
	401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	Human Resources	59
Occupational Health and Safety			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system	Occupational Health and Safety	60
	403-2 Hazard identification, risk assessment, and incident investigation	Occupational Health and Safety	60
	403-3 Occupational health services	Occupational Health and Safety	60
	403-4 Worker participation, consultation, and communication on occupational health and safety	Occupational Health and Safety	60
	403-5 Worker training on occupational health and safety	Occupational Health and Safety	60

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GRI STANDARD	DISCLOSURE	REPORTING LOCATION	PAGE NUMBER
Occupational Health and Safety			
GRI 403: Occupational Health and Safety 2018	403-6 Promotion of worker health	Occupational Health and Safety	60
	403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	Occupational Health and Safety	60
	403-8 Workers covered by an occupational health and safety management system	Occupational Health and Safety, Social Performance Indicators	60,73,74
	403-9 Work-related injuries	Occupational Health and Safety, Social Performance Indicators	60,73,74
	403-10 Work-related ill health	Occupational Health and Safety, Social Performance Indicators	60,73,74
Training and Education			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	Social Performance Indicators	73
	404-2 Programs for upgrading employee skills and transition assistance programs	Human Resources	59
	404-3 Percentage of employees receiving regular performance and career development reviews	Human Resources	59

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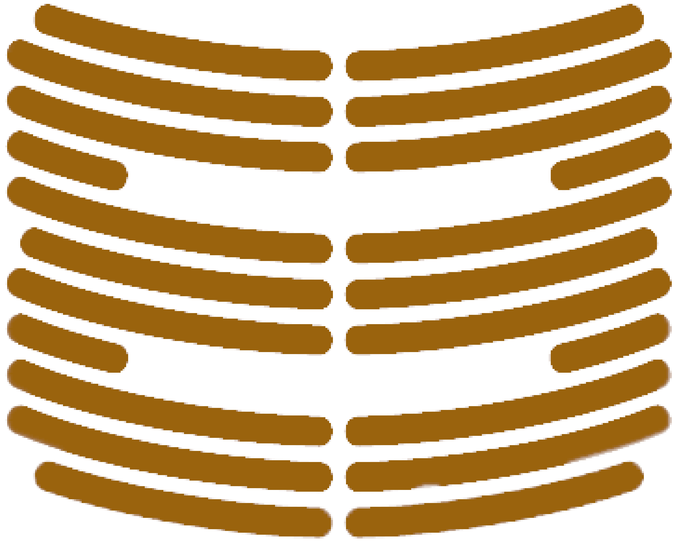
GRI STANDARD	DISCLOSURE	REPORTING LOCATION	PAGE NUMBER
Diversity and Equal Opportunity			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 405: Diversity and Equal Opportunity 2016	405-1 Diversity of governance bodies and employees	Social Performance Indicators	70
Child Labor			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 408: Child Labor 2016	408-1 Operations and suppliers at significant risk for incidents of child labor	Ethics and Compliance	47
Forced or Compulsory Labor			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 409: Forced or Compulsory Labor 2016	409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor	Ethics and Compliance	47
Local Communities			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	Social Contributions and Social Responsibility	61,62,63
	413-2 Operations with significant actual and potential negative impacts on local communities	Social Contributions and Social Responsibility	61,62,63

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GRI STANDARD	DISCLOSURE	REPORTING LOCATION	PAGE NUMBER
Supplier Social Assessment			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 414: Supplier Social Assessment 2016	414-1 New suppliers that were screened using social criteria	Sustainable Supply Chain	48,49,50
	414-2 Negative social impacts in the supply chain and actions taken	Sustainable Supply Chain	48,49,51
Customer Privacy			
GRI 3: Material Topics 2021	3-3 Management of material topics	Materiality Analysis	22,23
GRI 418: Customer Privacy 2016	418-1 Substantiated complaints concerning breaches of customer privacy and losses of customer data	Product Quality and Customer Satisfaction, There have been no complaints regarding breaches of customer privacy or loss of customer data during the reporting period.	51

Statement of Responsibility

The report contains forward-looking statements. By their nature, forward-looking statements involve known and unknown risks, uncertainties, and other factors that may cause the Company's actual results, performance, and achievements to differ materially from future results, performance, or achievements. Such factors include, but not limited to, changes in commodity prices, fluctuations in exchange rates and general economic conditions, increased costs and political and social risks, changes in the regulatory framework in which the Company operates or may operate in the future, environmental conditions, including extreme weather conditions, the hiring and retention of personnel, industrial relations issues, and litigation. Forward-looking statements are based on the Company's and management's good faith assumptions regarding the financial, market, regulatory, and other relevant environments that will affect the Company's business and operations in the future. The Company does not guarantee that the assumptions underlying the forward-looking statements will prove to be correct or that the Company's business or operations will not be materially affected by these or other factors that are unforeseen or unforeseeable by the Company or its management or that are beyond the Company's control. Although the Company has attempted to identify factors that could cause actual actions, events, or results to differ materially from those described in forward-looking statements, there may be other factors that could cause actual results, performance, achievements, or events to differ from those projected, estimated, or intended, and many events are beyond the Company's reasonable control. Accordingly, the Company undertakes no obligation to publicly update or revise any forward-looking statements or to communicate any change in the events, conditions, or circumstances on which such statements are based.



Sustainability Report **2024**

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