Smart
SOLAR TECHNOLOGIES

INTEGRATED SUSTAINABILITY REPORT 2024

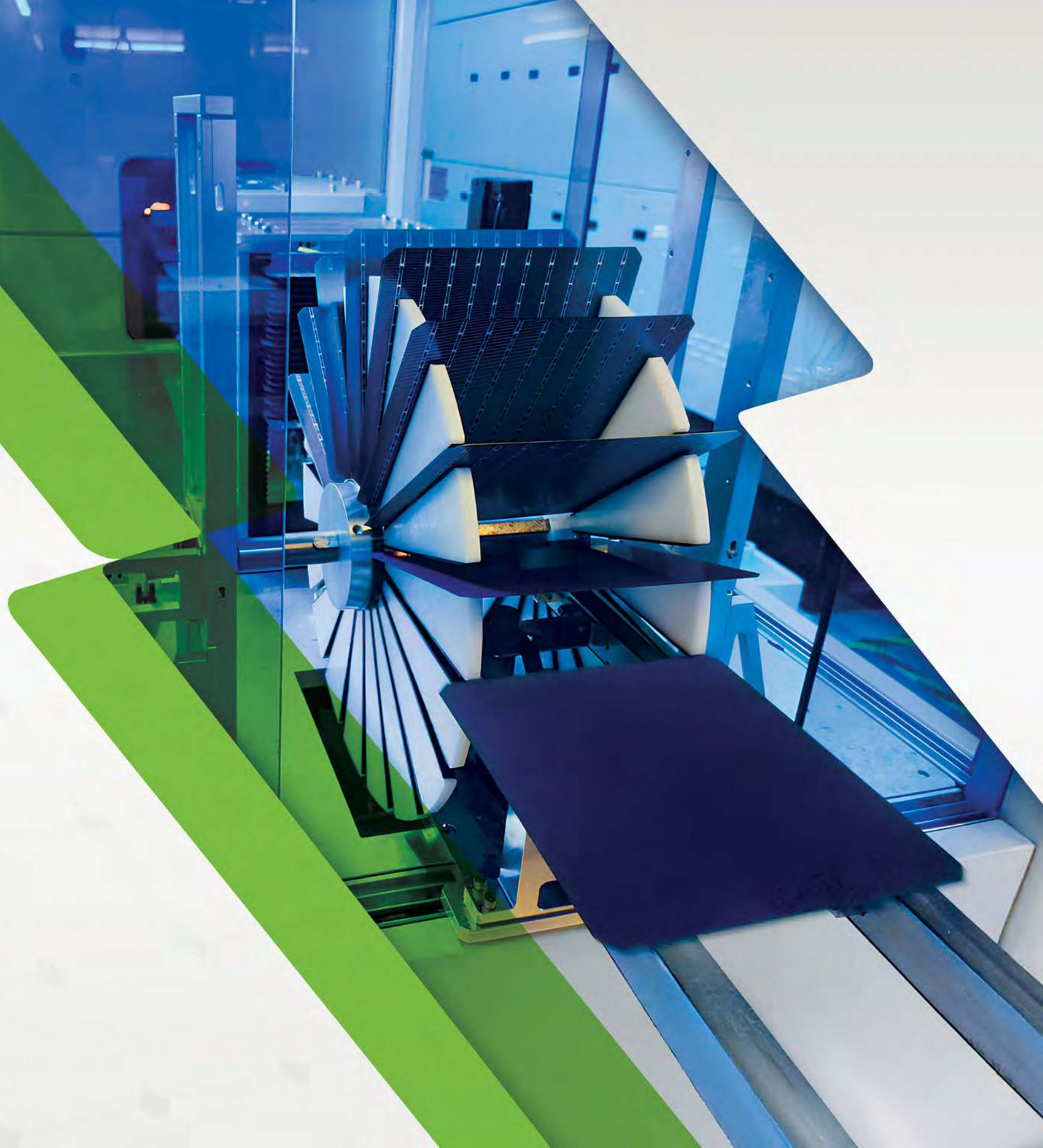


Table of Contents

About the Report

About the Report

We are an energy technology company focused on green energy, driven by advanced manufacturing technologies, and creating impact on a global scale for a more sustainable future.

This report presents the annual financial, managerial, and sustainability performance of Smart Güneş Enerjisi Teknolojileri Araştırma Geliştirme Üretim San. ve Tic. A.Ş. from an integrated perspective. Covering the period from January 1, 2024, to December 31, 2024, this report is prepared in accordance with the Global Reporting Initiative (GRI) Standards and TSRS 2 requirements, presenting our company's environmental, social, and governance (ESG) impacts, strategic approach, and long-term value creation capacity through a holistic lens. The aforementioned timeframe pertains to both the sustainability and financial reporting periods.

Accordingly, the report offers a multidimensional evaluation that includes not only environmental and social performance, but also financial resilience, governance practices, and operational capabilities.

Reporting is carried out on an annual basis, ensuring regular and transparent disclosure of information to stakeholders. In this context, by resolution of the Board of Directors dated June 17, 2025, Eren Bağımsız Denetim ve Yeminli Mali Müşavirlik A.Ş. has been authorized to conduct independent assurance of the report within the scope of TSRS.

Note: This report is prepared in accordance with the Turkish Sustainability Reporting Standards (TSRS). However, in line with the Public Oversight, Accounting, and Auditing Standards Authority's announcement dated May 15, 2025, and numbered 2025-33, a separate "TSRS-Compliant Sustainability Report" that is exclusively in accordance with the TSRS format has also been created and published on the KGK platform.

While this integrated report includes TSRS content, if you wish to review the version structured solely according to the TSRS format in detail, please visit the following link:

[TSRS-Compliant Sustainability Report (PDF)]

The companies evaluated within the scope of financial and sustainability reporting are listed below by region according to their fields of activity:

Türkiye:

Smart GES Enerji Üretim A.Ş.
Smart Güneş Enerji Ekipmanları Pazarlama A.Ş.
Smart Sumec Enerji Ekipmanları ve Pazarlama A.Ş.
Smart Güneş Enerjisi Teknolojileri Ar-Ge Üretim Sanayi Ticaret A.Ş. & IHK Holding A.Ş. Konsorsiyumu
Smart Solargize Yeşil Mobilite Enerji A.Ş.
Smart Yeşil Hidrojen Teknolojileri ve Üretim A.Ş.
Smart Güneş Paneli Hücre Üretim Teknolojileri A.Ş.

Europe:

Smart Solar Technology GmbH (Germany)
Icarus Solar GmbH (Germany)
Smart Solar Ukraine (Ukraine)
Smart Gunes Tecnologías Renovables S.L. (Spain)
Smart Solar Technologies AD (Bulgaria)
Smart Energy Global Investment and Development B.V. (Netherlands)
Smart Energy Bulgaria B.V. (Netherlands)
Smart Energ Iberia B.V. (Netherlands)
Smart Energy Romania B.V. (Netherlands)
Smart Energy Overseas Investment B.V. (Netherlands)
Smart Global Enterprises & Trading B.V. (Netherlands)

United States:

Smart Green Energy Technologies Inc. (USA)
Smart Green Energy Trading LLC (USA)

The sustainability performance data of these companies have been consolidated within the scope of the report. No mergers, acquisitions, or divestitures occurred during the reporting period. In such cases, the relevant assessments are conducted by internal expert teams in line with national and international reporting standards.

As a publicly traded company listed on the stock exchange, our financial statements are subject to independent audit, which has been conducted in accordance with international auditing standards. Our greenhouse gas emissions inventory has been verified in accordance with ISO 14064-3:2019 standard.

At Smart Solar Technologies, we value the feedback of all our stakeholders as part of our integrated reporting approach and believe these contributions significantly enhance the quality of our reporting. You may share any feedback, suggestions, or comments regarding the report with us via

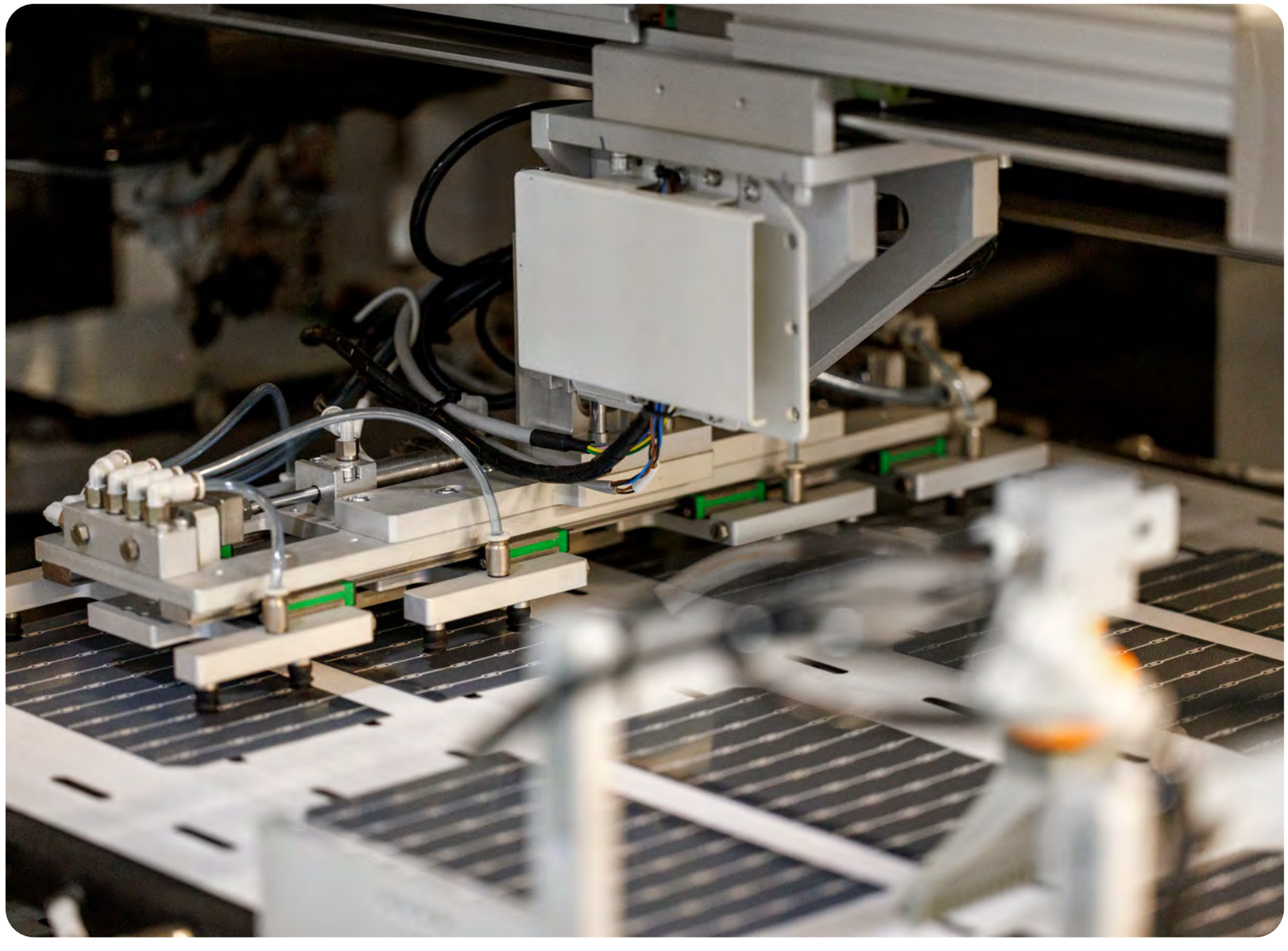
sustainability@smartsolar.com.tr

Reporting Within the Scope of TSRS Transition Exemption

Smart Güneş Teknolojileri A.Ş. will utilize the transition exemption granted by the Public Oversight, Accounting and Auditing Standards Authority (KGK) during its first TSRS reporting period. Accordingly;

- Only climate-related topics will be reported. The KGK decision on the implementation of the TSRS standard allows companies to limit disclosures to "climate-related risks and opportunities" in the first year. Detailed disclosures on other sustainability topics will be presented in the second reporting period.
- Our disclosures regarding climate risks do not include commercially sensitive information in terms of risk response and financial impact.
- Transition exemptions defined in accordance with Articles 38 and 39 of TSRS 1 have been applied.
- In accordance with TSRS 1 Article E3, only metrics and indicators for 2024 are included in our first report.
- In accordance with TSRS 1 Article E4, sustainability-related financial information will be shared with the public following the publication of the financial statements.
- In accordance with TSRS 1 Article E5, this first report only includes disclosures related to climate-related risks and opportunities.
- In accordance with TSRS 2 Article C4, the 2024 greenhouse gas calculations were performed based on the ISO 14064 standard.

Unless otherwise specified, the terms "Smart Solar Technologies," "Smart Solar," "Smart," "our company," and similar expressions used throughout this report refer to Smart Güneş Enerjisi Teknolojileri Araştırma Geliştirme Üretim San. ve Tic. A.Ş.



Messages from the Management

Message from the Chairperson of the Board of Directors

HALİL DEMİRDAĞ

CHAIRPERSON OF THE BOARD OF DIRECTORS

Dear Stakeholders,

We are pleased to share another step in our sustainability journey with you once again this year and to present our first integrated report. 2024 has been a year marked by profound transformation and uncertainty around the world, driven by economic and political instability. Amid these changes, particularly those related to the energy transition, which is a direct concern for us, we continued to advance our investments while staying true to our slogan "Faces to the Sun."

At Smart Solar Technologies, we entered the second century of the Republic of Türkiye by bringing to life a major investment project that marks a significant milestone for us. Following photovoltaic (PV) production at our facility in Aliağa, we also started our solar cell production facility in 2024. We thereby realized our long-standing vision for integrated production, successfully completing our ongoing solar cell investment. This development reflects not only the expansion of our product and production capabilities, but also the value we contribute to our country through high-tech, high-value-added product categories. The solar cell line that began operations at our integrated Aliağa facility unites our engineering strength, our commitment to domestic production, and our sustainability priorities, representing a critical step toward meeting Türkiye's demand for "locally produced" solar products for its energy transition.

As of 2025, we aim to increase our solar cell production capacity to 2,000–2,200 MW, while continuing our efforts to build a 1,500 MW wafer slicing line also at our integrated Aliağa facility. These investments will enable us to localize and integrate more stages of the production process, increasing our ability to generate high added value. The "2035 Renewable Energy Roadmap" announced by our Ministry of Energy and Natural Resources at the end of 2024 is also highly important because it highlights both the scale of Türkiye's national targets for solar energy generation and storage and the country's strategic focus on energy transition. Therefore, 2025 and the years ahead bring even greater goals and opportunities for us.

As of 2024, we established the Sustainability and Corporate Affairs Directorate within our company, providing a more systematic and inclusive foundation for our sustainability approach. This structure has enabled the company-wide ownership and more effective implementation of the strategic roadmap defined by our Sustainability Committee in previous years. In this context, we have advanced the monitoring of sustainability policies and accelerated the integration of this mindset into our business processes. To strengthen our corporate sustainability infrastructure, we have taken comprehensive steps in areas that go beyond environmental impact, such as operational efficiency, digitalization, information security, and organizational resilience. Our structural transformation in sustainability is being recognized by external stakeholders, as demonstrated by our B rating in our first CDP (formerly known as Carbon Disclosure Project) evaluation, our inclusion in the Borsa Istanbul Sustainability Index, and our ability to meet the stringent ESG criteria of international development finance institutions.

As climate regulations and the Carbon Border Adjustment Mechanism are rapidly taking effect across the European market, we are expanding our sustainable production approach beyond Türkiye, aligning our regional growth plans with this vision. Within this scope, we have initiated preparations for our first investment of this kind in the European Union—a new integrated solar panel and solar cell manufacturing facility in Bulgaria with a capacity of 1.5 GW.

This investment is fully aligned with the European Commission's strategic regulations, which support the green industrial transformation, such as the Clean Industrial Deal and the Net-Zero Industry Act. Simultaneously, we aim to bring our advanced manufacturing technologies to Europe and scale up the production of high-efficiency, low-carbon-footprint PV modules and cells across the region. Our facility will go beyond complying with sustainability regulations, and it will position our agile, domestically engineered technological capabilities as part of Europe's climate-focused industrial transformation. In this respect, our investment will become a key pillar of our sustainability-driven export strategy, while also enhancing our international competitiveness in areas such as innovative manufacturing technologies, resource efficiency, and digitalization.

At a time when global sustainability and climate policies are diverging and some countries are experiencing temporary setbacks due to energy security concerns, we are maintaining our long-term perspective and staying focused on our strategic goals. As we update our 2030 Almost Net Zero strategic transformation target and place climate risks at the core of our business operations, we have also enhanced the resilience of our governance model. In line with our commitments to gender equality, we are institutionalizing principles of equal representation and opportunity in management, while also systematizing our social responsibility initiatives, particularly those focused on exchanging knowledge and experience with young people.

We see sustainability not merely as an environmental responsibility but as a core element of corporate resilience, international competitiveness, and long-term development. With this mindset, we are not only manufacturing products; we are building a strong, resilient, and inclusive structure for the future.

I would like to thank you, our valued stakeholders, for your continued support and trust. As Smart Solar Technologies, we will continue our efforts to support our country's energy transition and to help build a sustainable future for the world. Together, we will continue to achieve great success for a more sustainable future.

.

Sincerely,

Halil Demirdağ
Chairperson of the Board of Directors
Smart Güneş Teknolojileri A.Ş.

Message from the Chairperson of the Sustainability Committee

HÜLYA KURT

CHAIRPERSON OF THE SUSTAINABILITY COMMITTEE

Dear Stakeholders,

In fulfillment of our commitment from last year, we are pleased to introduce our first integrated report in 2025, detailing our performance for the 2024 fiscal year. As we transition from 2024 to 2025, we are closely monitoring global shifts in policy and strategy. Before presenting our progress and updated sustainability roadmap as Smart Solar Technologies, I would like to start by reflecting on macro-level developments in the sustainability landscape.

Recent developments, particularly the policies introduced by the new U.S. administration, have raised concerns that the momentum behind the 'green transformation' and broader sustainability practices may be losing speed. The U.S., as one of the world's leading economies, has openly taken a stance against green transformation and sustainability through certain decisions and regulations that could be seen as "a step backward."

On the other hand, we observe that even in the European Union, which has both led the global philosophy of sustainability and established the most advanced framework to date, there are growing pressures to relax the enforcement and timeline of green transformation and sustainability-related regulations. Legitimate concerns over energy supply security are prompting a partial return to fossil fuels and a more pronounced shift toward nuclear energy.

Given this broader macro-outlook, should we be concerned about its potential implications?

The current debate around sustainability-focused investments, particularly in renewable energy, is taking place in the wake of significant progress. First and foremost, when we consider the scale that renewable energy investments have reached globally—from China to Europe, from leading Asian economies to the United States—along with their share in total energy production and consumption, the growth of electrification, developments in electric vehicles, advances in new energy technologies, and the emergence of new business models, it becomes clear that the progress we have achieved cannot be "reversed." We can say that this largely uninterrupted momentum is now experiencing some understandable delays—and in part, swings back and forth—due to political factors.

Ensuring energy supply security now requires not only producing electricity from solar power but also securing that produced energy through effective storage systems. From a financial standpoint, the dip observed in sustainability financing in 2022 and 2023, following its peak in 2021, appears to have been overcome in 2024, with green bond issuances returning to 2021 levels.

It is true that technologies like green hydrogen, the electric vehicle ecosystem, industrial transformation, and digitalization have yet to reach the desired pace and scale of commercialization. However, it is also clear that we cannot return to zero in virtually any of these areas.

The turbulence may continue for a while longer, and we may see some slowdowns and fluctuations in the pace of progress. However, this path has not been completely abandoned, especially at the corporate level and certainly not in Türkiye, where it offers opportunities that far outweigh the costs when it comes to improving efficiency and competitiveness. Therefore, we at Smart Solar Technologies remain firmly committed to our sustainability and green transformation strategies.

For Smart Solar Technologies, 2024 was a year in which we went beyond setting goals in our sustainability journey and achieved concrete and measurable results for the sustainability goals we set in 2022. As planned, we were included in the Borsa Istanbul Sustainability Index in 2024. This achievement is not just a milestone—it is a direct outcome of our determined efforts and strong performance across environmental, social, and governance areas.

Another important development is that we have received a B rating from CDP, which we participated in for the first time. Being rated at this level in our first year on an international platform like CDP demonstrates the transparency of our carbon management system and the rational foundation we have laid for our low-carbon strategy.

As part of our efforts to update our 2030 Almost Net Zero target, we have reassessed the impacts of climate change on our current and future responsibilities and performance, along with all associated climate risks. In light of these assessments, we restructured our compliance processes for CBAM and the Emissions Trading System (ETS). We have initiated dedicated projects to make our ISO 14064, ISO 14001, and sustainable supply chain management systems more integrated and cohesive. As part of our Sustainable Supply Chain system, we have begun evaluating suppliers, providing training, and sharing our experiences and best practices with them.

At Smart Solar Technologies, we view sustainability not as a set of rules to comply with but as a guiding principle for our entire business model and a key driver of competitiveness, export growth, and access to sustainable/green finance. Thanks to the positive strides we have made in sustainability, we successfully met the ESG requirements of international development finance institutions in our Aliağa Cell Facility, which was completed in 2024, and in our ongoing 128 MWp Niğde Bor YEKA solar power plant project. Accordingly, we will continue to enhance our existing structure in the coming year in line with sustainable finance principles.

As the Sustainability Committee, we will maintain close partnerships with the Corporate Governance and Early Identification of Risks Committees. We recognize that sustainability is not confined to a single department; it spans production, procurement, customer relations, finance, business development, risk, human resources, and more. Therefore, we implemented several successful sustainability structuring projects between 2022 and 2024, and in the coming year, we aim to further elevate our approach to international standards. We plan to crown our efforts in energy management, water footprint tracking, and information security with ISO certifications, further integrating these areas into our overall system.

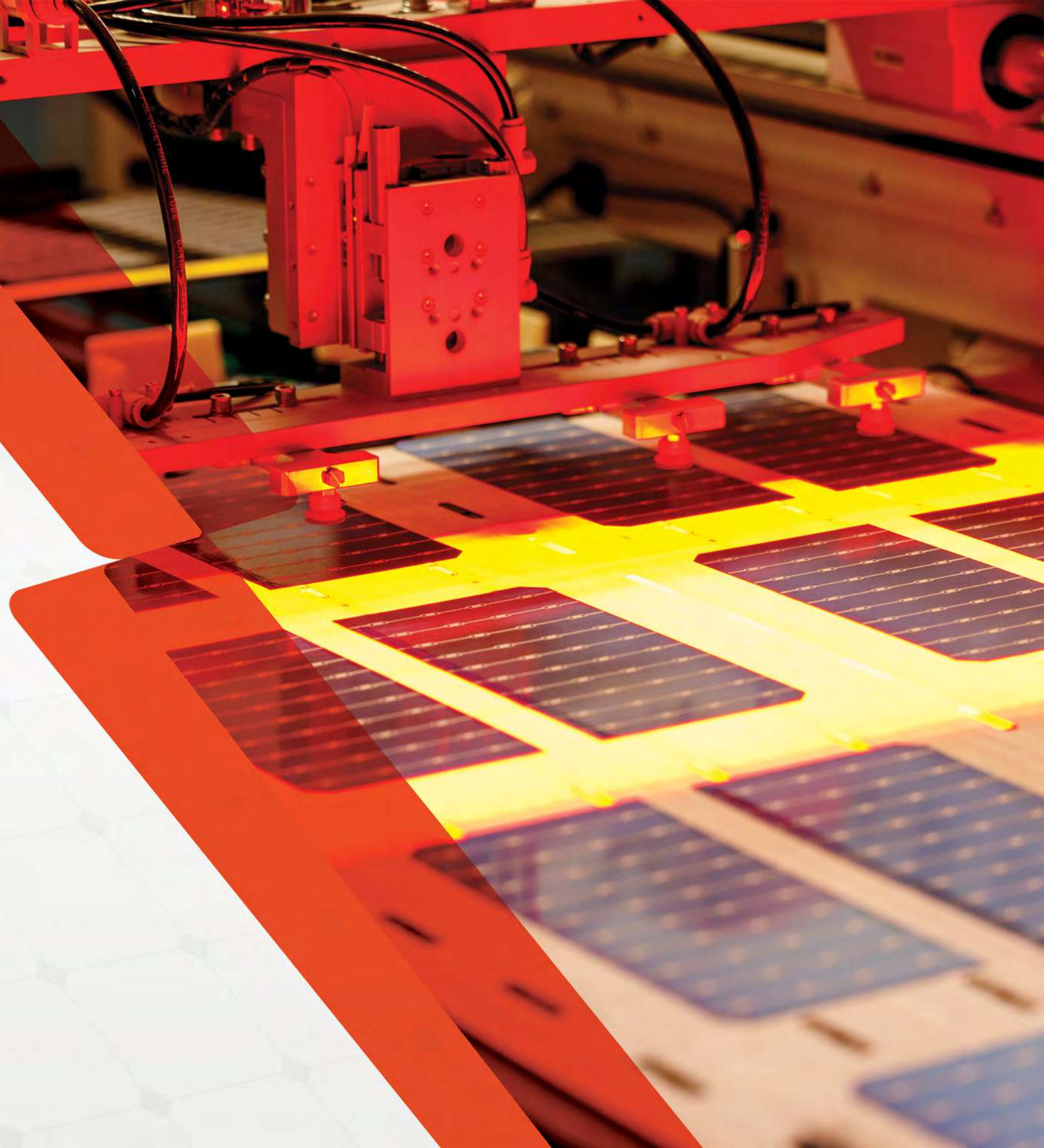
We have also committed to the Gender Equality Action Pledge, embracing the principles of equal representation and equal pay in leadership. In line with this commitment, we continue to take concrete steps and share our experiences with high school and university students to help raise public awareness. In 2025, we will develop and implement a corporate social responsibility roadmap that encompasses all of these initiatives.

There are still uncertainties, challenges, and shifting dynamics ahead. However, at Smart Solar Technologies, as we shape the technologies of the future with the legacy of our past, we embrace sustainability not merely as a goal, but as an integral part of our corporate culture. Guided by this vision, we will continue working with the same sense of responsibility to deliver a stronger, more inclusive, and more sustainable future for our country, our employees, and all our stakeholders.

We completed our 2023 Sustainability Report with the goal of presenting our first integrated report in 2024. Today, we are proud to have achieved that goal and to share this with you, our valued stakeholders: our first integrated report, combining our sustainability and financial performance. I sincerely thank our Sustainability Committee for shaping our efforts through shared insight, our Chairperson of the Board and board members for embracing this vision at every stage, our Sustainability Management Team, and all our valued colleagues. I hope our first integrated report serves as a valuable reference for you, and I thank you for your support and partnership on this journey.

Hülya Kurt
Chairperson of the Sustainability Committee

About Smart Solar Technologies



About Smart Solar Technologies

800 MW
domestic cell production capacity

2400 MW
panel production capacity

1,164
skilled employees

69% local supplier rate, supporting the economy

18,000+ hours of training annually for continuous development

17.4 billion
TRY strong balance sheet

42% women
in the workforce, contributing to gender equality

170+ successful EPC projects with strong field experience

3.5 billion
TRY equity strong capital strength

Smart Solar Technologies at a Glance

Founded in 2014 in Istanbul, Smart Solar Technologies is one of the world's leading integrated renewable energy technology companies.

With its R&D-driven structure and innovative approach, Smar Solar offers end-to-end solutions across a broad range, including panel and cell production, turnkey solar power plant installations, energy storage systems, electric vehicle charging infrastructure, and green hydrogen solutions.

By developing innovative solutions for renewable energy generation, Smart Solar Technologies supports the transition to a low-carbon economy and stands out with its strong manufacturing infrastructure in Türkiye and global expansion strategy.

Listed on Borsa Istanbul under the ticker SMRTG and included in the BIST 100 index, Smart Solar is recognized for its strong and sustainable growth ambitions.

The company operates two state-of-the-art manufacturing facilities in Türkiye, located in Gebze and Aliağa. In 2023, the company's annual solar panel production capacity reached 2,400 MW, and by 2024, a new solar cell manufacturing plant with a capacity of 800 MW started operations.

The panel production line with an annual capacity of 1,200 MW at the 23,500 m^2 facility in Gebze, utilizes advanced panel technologies such as Multi Busbar, PERC, Half-Cut Cell (laser-cut half cells), and Bifacial modules. As a result, the facility produces high-efficiency, long-lasting solar panels.

In 2023, the panel production lines at the Aliağa integrated production facility started operations, raising the company's total panel production capacity to 2,400 MW. As of 2024, the addition of solar cell production at the Aliağa integrated production facility marked a new phase in the company's integrated production capabilities. The solar cell production capacity is targeted to reach 2,000 MW by the end of 2025. Additionally, in the first half of 2025, a domestic wafer production line with a capacity of 1,500 MW will be start operations at the Aliağa integrated production facility. As part of its new investment strategy, the company plans to establish integrated production facilities with a total capacity of 1,500 MW across Türkiye, Europe, and the United States over the coming years.

Beyond its product offerings, Smart Solar Technologies also stands out for its comprehensive business operations. The company's operations span a wide spectrum, including the production and supply of solar panels and cells, financing and leasing solutions, EPC (turnkey) services, as well as engineering and project development.

Additionally, the company infrastructure is designed to provide end-to-end solutions in areas such as operations and maintenance services, as well as the establishment of electric vehicle charging networks. All of these operations are aligned with the company's vertical integration strategy, aimed at strengthening its global competitiveness.

Production facilities:

Gebze: 23,500 m² enclosed production facility

Aliağa: 50,000 m² land with a 38,000 m² enclosed integrated production facility

Smart Solar Technologies has offices and subsidiaries in Türkiye, Germany, Romania, the United States, Greece, Bulgaria, Switzerland, the Netherlands, Spain, and Ukraine. With its global operational network, the company serves hundreds of customers in over 20 countries and regions.

As one of Europe's leading integrated solar energy companies in turnkey power plant installations, panel and solar cell manufacturing, Smart Solar Technologies offers a broad range of solar energy solutions for both commercial and retail users. Below is a list of some of the countries to which the company has exported solar technologies and services:

- **Germany**
- **Austria**
- **Bulgaria**
- **Georgia**
- **Spain**
- **Italy**
- **Greece**
- **Ukraine**
- **South Africa**
- **Belgium**

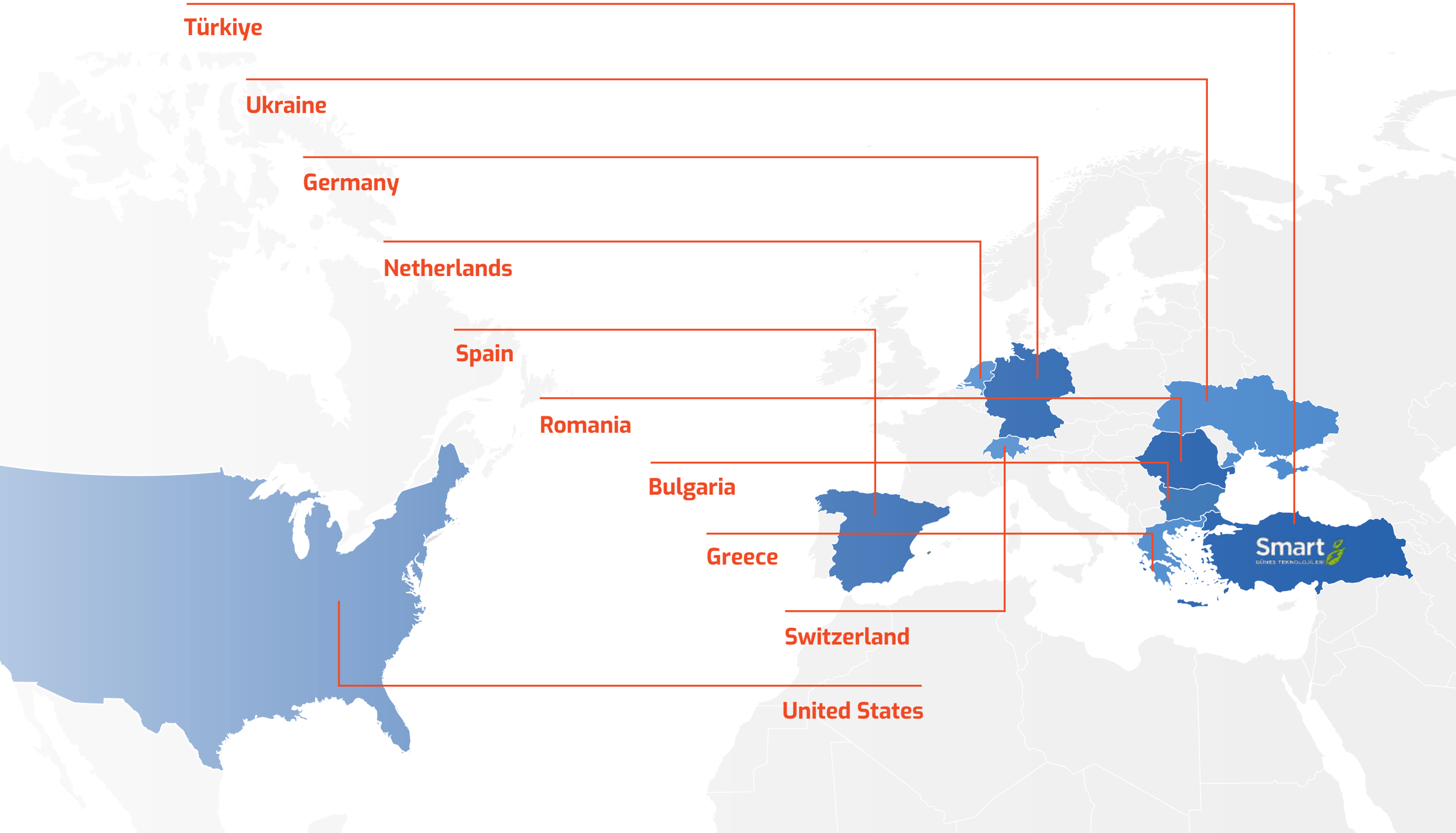
Smart Solar Technologies is not only focused on exporting products and services but is also steadily increasing its installed solar power capacity through domestic and international solar power plant (SPP) investments. The breakdown of installed solar capacity is as follows:

- Türkiye: 178 MW – operational (installed capacity)
- Bulgaria: 24 MW – operational (installed capacity)
- Albania: 60 MW – under development (project portfolio)
- Romania: 152 MW – under development (project portfolio)

Smart Solar Technologies holds a strong position in the industry with an EPC project portfolio totaling 2,200 MW and a solar power plant investment of 270 MW. This operational strength is supported by a team of 1,164 experts as of the end of 2024. Certified for its corporate structure that respects human rights, the company operates in line with responsible and ethical principles.

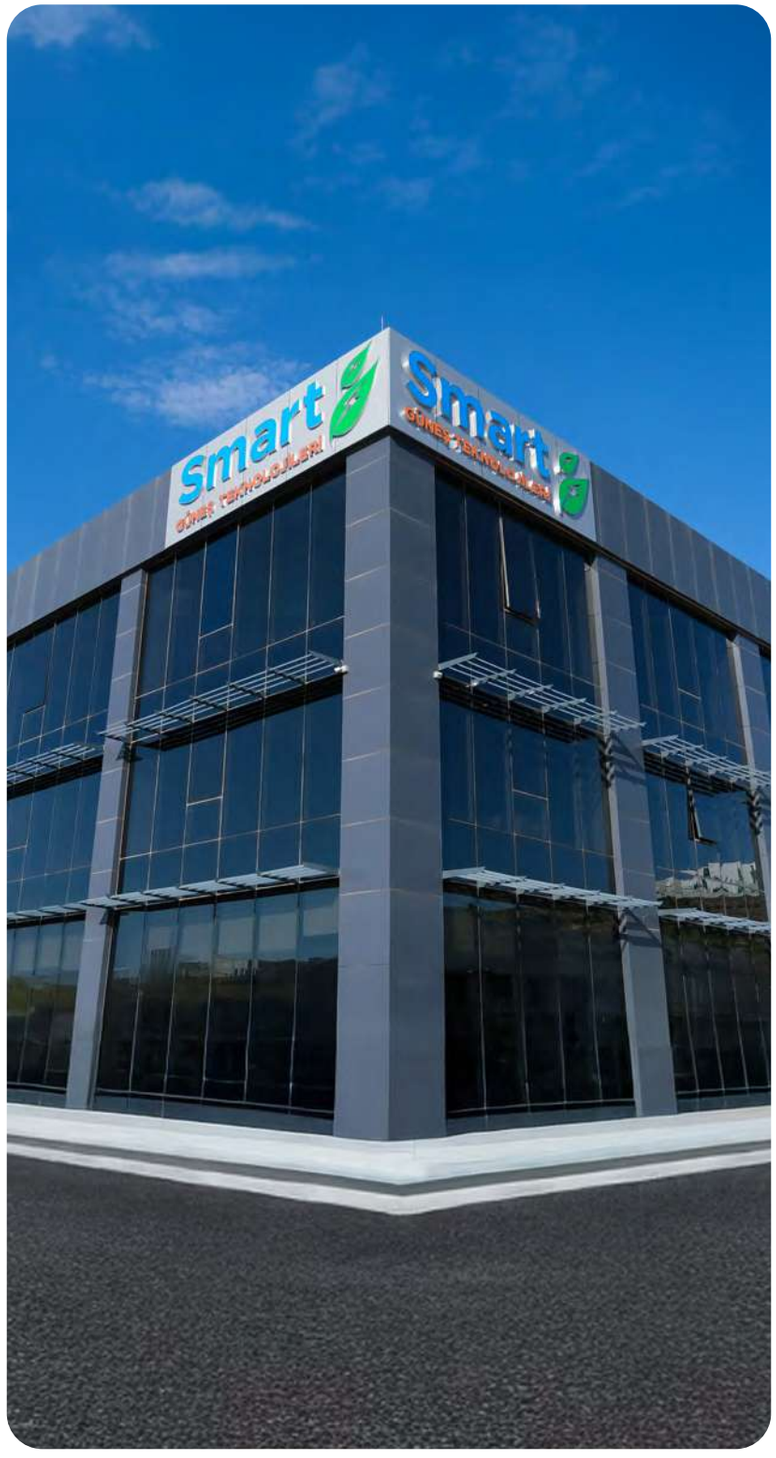
With its R&D-driven approach, innovation capabilities, and strategies supporting the low-carbon economy, Smart Solar Technologies continues to generate global value by developing integrated energy transition solutions, including solar panel and cell production, solar energy generation, green hydrogen, energy storage systems, and EV charging stations, advancing its vision of shaping the energy of the future.

Offices


Türkiye
Ukraine
Germany
Netherlands
Spain
Romania
Bulgaria
Greece
Switzerland
United States
Smart
GÜNEŞ TEKNOLOJİLERİ

TSRS 2 Performance Metrics

Performance Metric	2024	Description
Number of units produced by product category (Cell)	18,299,695 units	Total number of cells produced at the Aliağa facility between July and December 2024 (the cell production line started operations in July 2024)
Number of units produced by product category (Panel)	1,272,051 units	Total number of panels produced at the Gebze and Aliağa facilities throughout 2024
Number of employees	1,164 people	Total number of employees as of the end of 2024
Total capacity of photovoltaic (PV) solar modules produced	1,140 MW	Total panel capacity produced at manufacturing facilities in 2024
Total capacity of photovoltaic cells produced	696 MW	Total cell capacity produced at manufacturing facilities in 2024
Total capacity of completed solar energy systems	0 MW	No systems started operations in the field during 2024
Total project development assets	2,043,585,152 ₺	Corresponds to the “Construction in progress” item in the financial report



* The metrics and targets presented in this report were prepared in accordance with the “Metrics and Targets” provisions outlined in paragraphs 48–60 of Türkiye Sustainability Reporting Standard (TSRS) 1, and paragraph 61T added to the same standard at the end of 2024.

The metrics cover the consolidated operational boundaries of Smart Solar Technologies and its subsidiaries.

Smart Solar Technologies has reported its core performance metrics in accordance with Volume 44—Solar Technology and Project Developers and Volume 49—Electrical and Electronic Equipment sector guidelines of the Turkish Sustainability Reporting Standard 2 (TSRS 2).

As this is the first reporting of performance metrics under TSRS, the 2024 calendar year has been designated as the “base year.”

Vision, Mission, and Values

Our Vision

To become the company of the future by creating value through the innovative renewable energy and technology solutions we offer.

Our Vision

To invest in renewable energy by generating value through advanced technologies with a commitment to high quality and a green future, and to make a meaningful impact on sustainable development by honoring the values of our stakeholders.

Our Values

At Smart Solar Technologies, we take every step guided by our core values, moving confidently toward the future. With a vision to deliver excellence to both our internal and external customers, we strive to contribute to our industry and to our country. The values we embrace in line with this vision are as follows:

- Innovation
- Continuous Improvement
- Solution Orientation
- Passion
- Collective Wisdom
- Social Responsibility
- Commitment to Quality
- Agility
- Sustainability

Milestones

2014

- The first PV power plant installation in Türkiye was completed.
- The first rooftop solar energy system in Romania began operations.

2015

- Project approvals were received in Türkiye with a total capacity of 15 MW.
- Installation of the first CIS Glass-Glass Panel Project was completed.

2016

- Factory construction processes in Gebze began on a 23,500 m^2 site.
- 300 completed solar power plant projects were approved by TEDAŞ.
- A strategic partnership agreement was signed with SUMEC Group.

2017

- The solar panel factory in Gebze began production with a capacity of 420 MW.
- The installation of the world's second-largest Glass-Glass Panel SPP Project was completed.

2018

- PV panel production capacity increased to 800 MW.

2019

- Germany and Ukraine offices were opened.
- The company transitioned into a holding structure.
- Serial production of Bifacial and Half-Cut panels began.

2020

- PV panel production capacity increased to 1200 MW.
- The first Carbon Emission Reduction Certificate was obtained.
- The first Renewable Energy Certificate (IREC) was received.

2021

- Smart Solar won the Deloitte Technology Fast 50 "Big Stars" award.
- The Union of Chambers and Commodity Exchanges of Türkiye (TOBB) ranked Smart Solar among Türkiye's 100 fastest-growing companies.
- The Sustainable Management System project was launched.

2022

- Smart Solar Technologies shares began trading on Borsa Istanbul as of March 24, 2022.
- The solar panel factory in Dilovası began production with a capacity of 500 MW.
- The Sustainability Strategy and Roadmap were defined.
- Smart Solar became a member of the Ultra Low Carbon Solar Alliance.
- The Respect Human Rights Certificate was obtained.
- The first ISO 14064 Certificate (Scopes 1, 2, 3) was obtained.

2023

- The first Sustainability Report was published.
- The 2023–2027 Strategy Document was announced.
- Smart Solar became a signatory of the UN Global Compact and a member of SKD Türkiye.
- The 2040 Net Zero target was announced.
- Panel production began at the Aliağa Integrated Manufacturing Facility.
- The Sustainability Management System was implemented.
- The Niğde Bor investment was initiated.

2024

- The first CDP reporting process was successfully completed (Rating: B).
- Smart Solar was included in the BIST Sustainability Index following Refinitiv ESG evaluation
- Interim emission reduction targets were set for 2030.
- The Corporate Climate Risk Analysis was conducted.
- Aliağa solar cell manufacturing facility began operations with a capacity of 800 MW.
- The Sustainability and Corporate Affairs Directorate was established.
- Smart Solar joined the UN Global Forward Faster initiative and pledged commitment to "Gender Equality."
- The Sustainable Supply Chain Management System was launched.

Corporate Management and Organizational Structure

Smart Solar Technologies has built its corporate governance approach on the principles of transparency, accountability, and participation, creating value with its strong governance structure that fosters investor confidence, sustainable growth, and long-term value creation. The Board of Directors, which is the highest governing body responsible for corporate oversight, actively participates in strategic decision-making and plays a pivotal role in shaping the company's overall direction.

This management approach forms the foundation for internal corporate discipline and also for full compliance with regulatory requirements. As a publicly traded company subject to Capital Markets Board (CMB) regulations, Smart Solar Technologies demonstrates full compliance with the Corporate Governance Principles. The company's financial statements are independently audited and publicly disclosed via the Public Disclosure Platform (KAP). Similarly, all significant developments and decisions are communicated to the public in accordance with the principle of transparency. This approach goes beyond regulatory compliance; it is embraced as a core component of the company's culture.

Adherence to these principles is reinforced by the structure and operations of the Board of Directors. **The board consists of 11 members, 4 of whom are independent members.** All independent members have submitted written declarations of independence.

With five women members, representing 45% of the board, the company clearly demonstrates its stance on gender equality.

Board members are selected from among highly qualified and experienced individuals and are fully compatible with CMB criteria. Five members are appointed by the General Assembly from among non-independent candidates nominated by the majority of Group A shareholders.

Board members are appointed for a maximum term of three years and may be re-elected. At the Ordinary General Assembly Meeting held on May 30, 2024, all board members were re-elected for another three-year term.

The company's leadership structure is designed to support the integrity of governance. This integrated leadership model ensures strong coordination between company strategies and day-to-day operations, helping sustainability goals to be internalized throughout the organization.

The Chairperson of the board reviews the company's financial and operational performance and closely monitors the implementation of strategies, enabling the clear articulation of corporate objectives and effective communication across the organization.

The operations of the board follow a defined set of rules. The board convenes with a majority of members present and makes decisions by a majority vote of those in attendance. In 2024, the board held 11 meetings, during which all resolutions were passed unanimously, with a participation rate of 90%. Board members do not hold weighted voting rights or veto power, ensuring equality and impartiality in decision-making. Meeting coordination and information flow are managed by the General Secretary.

Measures implemented to address potential liabilities and conflicts of interest that may arise in the execution of board duties are another key factor that reinforces governance integrity. Smart Solar Technologies provides Management Liability Insurance for its board members and senior executives. Board members are paid a monthly attendance fee as determined at general meetings.

Remuneration for independent members is determined in accordance with Capital Markets Board (CMB) regulations, and there were no related party transactions submitted for the approval of independent members during the reporting period.

No performance-based incentive system is used in determining the financial rights of board members. This approach aims to preserve objectivity and independence in decision-making processes. In this context, the company does not lend money, grant credit, or provide personal loans through third parties, or provide guarantees such as sureties in favor of board members or executives.

To ensure effective execution of board responsibilities, committees, which are subunits of the board, are actively engaged in their work. In accordance with CMB Corporate Governance Principles, the company has established the Audit Committee, Corporate Governance Committee, Early Identification and Management of Risks Committee, and the Sustainability Committee.

The responsibilities of the Nomination Committee and Remuneration Committee are carried out under the Corporate Governance Committee. All committees are chaired by independent board members, and some independent members serve on multiple committees. This structure, supported by internal audit systems, ensures that business processes are conducted accurately, transparently, and in a timely manner.

This governance structure is supported by our policies, which are aligned with our corporate values.

Our codes of ethics and policies that complement corporate governance include topics such as Human Rights, Environment and Climate Change, Occupational Health and Safety, and Anti-Bribery and Anti-Corruption.

These documents are approved by the Board of Directors and published publicly both in Turkish and English. In addition, the company's independently audited financial reports and credit rating processes serve as key mechanisms to reinforce financial transparency and accountability.

This integrated governance model ensures that decision-making processes are aligned with strategic goals and is supported by the expertise and insights from operational units. As a result, by directly bringing the opinions and expectations of a wide range of stakeholders, including suppliers, communities, investors, and employees, to the management level, we achieve an inclusive governance structure.

The corporate governance framework is complemented by our principle of transparent and equitable communication with shareholders. During General Assembly meetings, all shareholders are granted equal rights to speak, express opinions, and ask questions, and all queries not involving trade secrets are answered. Proposals and dissenting opinions raised during meetings are recorded in the minutes and disclosed to the public, reaffirming the company's commitment to transparency.

In conclusion, the corporate structure of Smart Solar Technologies goes beyond regulatory compliance, supporting effective decision-making processes, stakeholder satisfaction, and sustainable performance thanks to its integrated structure. This approach fosters a strong governance culture across all levels of the company and safeguards long-term success.

Board of Directors and Committees

Board of Directors

HALİL DEMİRDAĞ

CHAIRPERSON OF THE BOARD OF DIRECTORS

Halil Demirdağ graduated from Boğaziçi University's Industrial Engineering Department in 1996 and began his entrepreneurial journey during his university years by engaging in international trade activities. Following his graduation, he served as the Founder and CEO of the family-owned Everest Group between 1996 and 2006, leading several significant commercial projects.

In 2009, he made an ambitious entry into the renewable energy sector by founding Smart Solar Technologies Energy Investment Company in Sofia, Bulgaria. Demirdağ has led numerous international solar energy projects, establishing a prominent position in the sector both as an investor and a provider of turnkey solar power plant (SPP) installation services.

He started domestic photovoltaic solar panel production in Türkiye at Smart Solar Technologies and transformed the company into a manufacturing powerhouse, a visionary move that strengthened the company's presence both in Türkiye and in other countries, including Bulgaria, Romania, Greece, Germany, Switzerland, and Ukraine.

Currently serving as Chairperson of the Board at Smart Solar Technologies, Halil Demirdağ continues to lead pioneering projects in renewable energy, technology, and digital transformation. He is fluent in English and Bulgarian.

HAKAN AKKOÇ

VICE CHAIRPERSON OF THE BOARD OF DIRECTORS

After completing his education at Istanbul Erkek Lisesi, Hakan Akkoç graduated from Boğaziçi University's Industrial Engineering Department in 1996 and began his career while he was still a student, demonstrating his entrepreneurial instincts. He established commercial ties with Taiwan in the automotive spare parts sector between 1992 and 1994, contributing to the family business.

In 1996, he founded Autodinamik Ltd. in Bulgaria, operating in the spare parts import and distribution sector. He transformed the company from a small retail store into a logistics operation spanning 6,900 m^2, serving over 3,000 customers with a portfolio of 120,000 products. Leveraging e-commerce infrastructure, he expanded into international markets including Germany, Italy, Spain, Brazil, and China, boosting the company's total revenue beyond 50 million USD.

Turning his focus to energy investments in Bulgaria in 2007, Akkoç began investing in various solar power plant projects with the Smart Solar Technologies Group in 2009. He officially joined Smart Solar Technologies in 2016 and currently serves as the Vice Chairperson of the Board of Directors.

Hakan Akkoç has extensive knowledge in international investment, strategy development, and financial planning, and is fluent in English, German, and Bulgarian.

BORGA KARAGÜLLE

VICE CHAIRPERSON OF THE BOARD OF DIRECTORS

Borga Karagülle graduated from L'université Américaine de Paris with a degree in International Business in 2000 and began his career as an Assistant Production Manager at Multimed Group Corporation. Between 2000 and 2004, he served as International Trade Manager within the same group.

After 2004, Karagülle joined Renovatio Group as Business Development Manager and entered the solar energy sector in 2010, assuming business development responsibilities at ET Solutions AG / Mel Solar Energy.
In 2015, he joined ReneSola, one of the world's largest solar energy companies listed on the New York Stock Exchange, gaining valuable experience in international markets.

Karagülle joined Smart Solar Technologies Group in 2018 and currently serves as Vice Chairperson of the Board of Directors and as the General Manager of its German subsidiary, Smart Solar Technology GmbH.
Karagülle has international experience in the field of renewable energy and is fluent in English and French.

HAVVA KÖROĞLU

VICE CHAIRPERSON OF THE BOARD OF DIRECTORS

Graduated from Istanbul Technical University's Geological Engineering Department in 2001, Havva Köroğlu received awards both from ITU and the company she worked for as part of the "Underground Mining Facility Geological Floor Plan Creation Project" she participated in as a university student.

Köroğlu began her professional career in sales and international trade in the same year and has held executive positions in several industries, notably in textiles. At the age of 26, she was appointed Country Manager of the Spanish textile giant Scor Equip S.L. in Türkiye, a significant achievement in international trade. In the following years, she held executive roles across a diverse range of sectors including construction, lighting, paper, and energy.

In 2015, Köroğlu entered the energy sector and founded Seg Elektrik, which became a solution partner to EPC companies in solar power plant (SPP) projects, offering services such as project design, mobilization, CCTV systems, low voltage solutions, and construction.

Köroğlu joined Smart Holding in 2018 and currently serves as Vice Chairperson of the Board of Directors at Smart Solar Technologies. She actively works to increase women's employment within the group. Köroğlu is fluent in English and is married with two children.

İHSAN ŞAFAK BALTA

BOARD MEMBER

İhsan Şafak Balta graduated from the Istanbul University, Faculty of Law in 1989 and completed his legal internship at the Istanbul Bar Association. He currently practices as an independent attorney and is registered with the Istanbul Bar Association.

Between 2002 and 2017, he held executive positions in the legal departments of companies within the banking and finance sector. He has served as Senior Legal Advisor and Board Member at various financial and real sector companies operating both domestically and internationally.

Since 2019, Balta has served both as Legal Advisor and Board Member at Smart Solar Technologies. Balta is actively involved in numerous professional associations, social initiatives, foundations, and NGOs.

FİLİZ AVŞAR AKTAŞ

BOARD MEMBER

Filiz Avşar Aktaş graduated from Marmara University, Department of Business Administration, and completed her master's degree in Energy Technologies and Management at Sabancı University.

Between 2006 and 2011, she worked as an Operations Manager in the foreign trade and logistics sectors, making notable contributions to the establishment of the first Ro-Ro line between Türkiye and Egypt. From 2012 to 2015, she served as Project Coordinator for clustering projects carried out by the Ministry of Economy. During this time, she provided During this process, she provided strategic guidance to many sectoral exporters' associations, leading strategy development processes to increase companies' export capacities and overseeing market research and international marketing activities for targeted markets. She was recognized by the Ministry as the "Best Project Manager."

Aktaş joined Smart Solar Technologies in 2019 and served as General Secretary from 2020 to 2022. Since 2021, she has served as a Board Member and currently also holds the roles of Coordinator of the Chairperson's Office and Chief Sustainability and Corporate Affairs Officer. She plays an active role in shaping the company's sustainability-driven strategies and its international representation.

She is fluent in English and is married with one child.

CEM NURİ TEZEL

BOARD MEMBER

Cem Nuri Tezel completed his bachelor's degree at Marmara University, Finance Department, followed by a Master of Business Administration (MBA) at the University of Leeds. He began his professional career in 1996 in the Audit Department of Arthur Andersen Istanbul, later serving as Senior Manager at Ernst & Young and as Internal Audit Manager at Sabancı Holding.

Between 2005 and 2007, Tezel served as Finance Director at Enka Pazarlama, and from 2008 to 2021, he held CFO roles at various institutions, including Sabiha Gökçen Airport, Soyak Holding, Assan Alüminyum, and Aksa Enerji—a publicly listed company on Borsa Istanbul. Tezel is a member of the Istanbul Chamber of Certified Public Accountants (İSMMMO), a founding member of the Enterprise Risk Management Association (KRYD), and served as a member of the DEİK Bahrain Business Council from 2017 to 2018.

Tezel was named among Fortune Türkiye's "Top 50 Most Effective CFOs" in 2016, 2018, and 2020, and has been a speaker at numerous international finance conferences. Since 2022, he has served as Vice Chairperson and Board Member responsible for financial affairs at Smart Solar Technologies. Tezel is fluent in English and German.

PROF. DR. MUSTAFA KEMAL YILMAZ

INDEPENDENT BOARD MEMBER

Prof. Dr. Mustafa Kemal Yılmaz graduated from Galatasaray High School in 1985 and earned his undergraduate degree in Business Administration from Marmara University in 1990. He completed his Master's program in Finance and Accounting in English in 1993, received his Ph.D. in Banking in 1998, and became an associate professor in Finance and Accounting in 2004.

Yılmaz began his professional career in 1991 as a specialist at the Turkish Treasury and took on various roles at the Istanbul Stock Exchange (ISE) since 1994. Between 1994 and 2005, he worked in the Futures Market; from 2006 to 2007 as a specialist in the Risk Management Department; and from 2007 to 2011, he served as Chief of Staff.

In 2006, he attended training at the Tehran Metal and Agricultural Exchanges in Iran as a representative of the Islamic Development Bank, and between 2007 and 2013, he served as an advisor to the Capital Markets Council of the Union of Chambers and Commodity Exchanges of Türkiye (TOBB). He also served as Executive Vice President at Borsa Istanbul from 2012 to 2016, Board Member at Takasbank from 2012 to 2013, Vice Chair of the Board at EPİAŞ from 2015 to 2016, and Board Member at the Central Securities Depository & Trade Repository of Türkiye (MKK) from 2013 to 2016.

Since 2017, he has been serving as a Professor and Vice Rector at Ibn Haldun University. He is married with two children.

HÜLYA KURT

INDEPENDENT BOARD MEMBER

Hülya Kurt graduated from Hacettepe University, Chemical Engineering Department in 1988 and began her career as an R&D and Project Engineer at Eczacıbaşı Vitra. In 1995, she joined the Engineering Department of the Industrial Development Bank of Türkiye (TSKB) as a Senior Project Engineer and assumed various roles before becoming Department Manager in 2008.

From 2006 to 2016, she served as Environmental and Sustainability Coordinator at TSKB and led the founding of Escarus – TSKB Sürdürülebilirlik Danışmanlığı A.Ş. in 2011. Between 2011 and 2015, she served as Vice Chair of the Board and Executive Member at Escarus, and in 2016, she was appointed as General Manager.

A leading figüre in the fields of sustainable finance, environmental impact management, and green economy, Kurt chaired the Turkish Banks Association's Working Group on "The Role of the Finance Sector in Sustainable Development" and led the preparation of the Sustainability Guide. She is a member of TÜSİAD's Finance Working Group and the BIST Sustainability Platform. She provided sustainability consultancy for TSKB's Green Bond project and coordinated Sustainable Development Goals (SDG) initiatives under the Ministry of Development.

Hülya Kurt, who completed the Business Certificate Program at Marmara University in 1997 and the Executive MBA Program at Koç University in 2000, is a founding partner of SEF Partners A.Ş. with extensive experience in climate change, energy transition, sustainable development, and finance, and provides consulting services in these areas.

MELİHA SEYHAN

INDEPENDENT BOARD MEMBER

Meliha Seyhan graduated from Yıldız Technical University with a degree in Accounting and from Anadolu University with a degree in Business Administration. She earned her Executive MBA from Sabancı University and also attended the "Leadership and Innovation" certificate program at MIT in the United States.

Seyhan began her professional career in 1991 at Gillette A.Ş., serving until 2005 as Financial Analyst, Plant Controller, and Reporting & Cost Accounting Manager for Türkiye, the Balkans, and the Medex Hub regions. She was the regional project leader in Boston for "Renaissance," one of Gillette's largest global financial transformation projects.

Following Procter & Gamble's acquisition of Gillette in 2005, she joined P&G, where she held roles including Systems Simplification Manager, Customer Business Development Finance Team Manager, Corporate Accounting Group Manager, and Internal Control & Procure-to-Pay Group Manager.

In 2010, she became the first CFO of Lila Group, where she led the restructuring of the finance department, the migration to SAP, and digital transformation programs. In 2017, she also assumed responsibility for Information Technologies, further driving the company's transformation strategies. After completing her 11-year tenure at Lila Group in 2021, she founded ANKA Holistic Management Consulting, providing advisory services.

Seyhan is also active in civil society, working with platforms such as TKYD, LEAD Network Türkiye, TÜRKONFED, and the Futurists Association. Additionally, she serves as a Board Member at the Ethical Values Center Association (EDMER), contributing to ethical leadership, and as a founding member and Vice Chair of the Young Pearls Association (Genç İnciler Derneği), supporting youth leadership development.

She also mentors women leaders in the retail sector and teaches Financial Ethics courses at universities within the scope of the "Ethical Leaders Academy" program.

BİLGÜN GÜRKAN

INDEPENDENT BOARD MEMBER

Bilgün Gürkan graduated from the American Collegiate Institute in İzmir, earned her degree in Business Administration from Boğaziçi University, and completed the Executive MBA program at INSEAD in 1998.

She began her career in 1991 at the Saudi American Bank (Samba Bank) and in 1994 joined ABN AMRO Bank's Zurich office, later taking charge of the bank's Corporate and Investment Banking operations in Türkiye. She held this position until 2011.

From 2011 to 2015, she served as Head of Corporate Marketing at Standard Bank and as Country Manager for Türkiye at Renoir Management Consulting. In 2016, she established and began managing the Türkiye Representative Office of Bank of Bahrain and Kuwait (BBK), playing an active role in facilitating financing from Gulf countries to Türkiye.

In 2017, she founded the TÜSİAD Gulf Countries Network, serving as Chair and helping strengthen business relations in the region. Since 2020, she has also served as Chair of the Türkiye–Bahrain Business Council at DEİK.

Leveraging her expertise in corporate governance and sustainability, Gürkan serves as an Independent Board Member at Biotrend Enerji and as a Board Member at TEMA Foundation, contributing to nature conservation and environmental awareness initiatives.

Gürkan, who also actively participates in organizations that support women's leadership, serves in various non-governmental organizations, including the International Women's Forum, and engages in initiatives aimed at social development and sustainable growth.

Bilgün Gürkan is married with two children and is fluent in English.

Board Committees

In line with the Capital Markets Board's (CMB) Corporate Governance Principles, Smart Solar Technologies has established four committees to enhance governance quality and establish effective oversight and control mechanisms. These committees are the **Audit Committee, Corporate Governance Committee, Early Identification of Risks Committee, and Sustainability Committee.** Each of them operates within their own area of expertise to ensure that company activities are conducted with transparency, sustainability, and a risk-focused management approach.

You can access detailed information on the duties and operating principles of the committees by scanning the QR code below.

https://smartsolar.com.tr/en/Committees.html

	Audit Committee	Corporate Governance Committee	Early Identification of Risks Committee	Sustainability Committee
Scope	· Ensures that the company's accounting and reporting systems comply with applicable regulations. · Oversees the fair and accurate public disclosure of financial information. · Monitors independent audit processes. · Assesses the effectiveness of internal control mechanisms. · Provides recommendations on the selection of independent audit firms. · Reviews the compliance of financial statements with accounting standards. · Addresses and resolves complaints regarding financial reporting and internal control processes. · Reviews periodic audit activities and adjusts plans when necessary.	· Ensures the company's compliance with the CMB's Corporate Governance Principles under Communiqué II-17.1. · Oversees the activities of the Investor Relations Department. · Provides improvement recommendations to the Board of Directors. · Performs the functions of the Nomination Committee and Remuneration Committee. · Contributes to identifying and evaluating suitable candidates for the Board and senior management.	· Identifies strategic, operational, financial, and compliance risks that may threaten the company's existence, growth, or continuity. · Determines necessary measures to address such risks. · Establishes and implements risk management processes. · Ensures that risks are managed in line with the company's risk profile. · Develops solutions to counter potential threats. · Monitors and evaluates risks and submits regular reports to the Board of Directors.	· Operates in line with the Sustainability Principles Compliance Framework under the CMB's Communiqué II-17.1.a. · Plans activities in environmental, social, and governance-related areas. · Develops, implements, and monitors the company's sustainability policies. · Publishes the company's annual sustainability reports in both Turkish and English.
Meeting/ Reporting Frequency and Agenda	· Meets at least quarterly. · Convened four times in 2024. · Managers, internal auditors, and independent auditors may be invited when necessary. · Authorized to obtain external consultancy services.	· Convened five times in 2024. · Analyzes the reasons behind unimplementable principles and recommends corrective measures for non-compliance. · Prepares a Corporate Governance Compliance Report every quarter.	· Convened six times in 2024. · Risk assessments and proposed solutions were reported regularly to the Board of Directors.	· Meets regularly to monitor the implementation of sustainability policies. · Annual sustainability reports are published.
Members	· **Meliha Seyhan**, Chair · **Hülya Kurt**, Member · **Bilgün Gürkan**, Member · **Mustafa Kemal Yılmaz**, Member	· **Mustafa Kemal Yılmaz,** Chair · **Hülya Kurt**, Member · **Meliha Seyhan**, Member · **Bilgün Gürkan**, Member · **Alper Yücel**, Member	· **Bilgün Gürkan**, Chair · **Mustafa Kemal Yılmaz**, Member · **Hülya Kurt**, Member · **Cem Nuri Tezel**, Member	· **Hülya Kurt**, Chair · **Mustafa Kemal Yılmaz**, Member · **Filiz Avşar Aktaş**, Member

Senior Management

Smart Solar Technologies operates with a senior management team that combines sector expertise, international experience, and strategic vision. All operational and administrative processes, including EPC projects, technology development, human resources, and financial management, are managed by professional teams specifically structured for their respective areas of responsibility.

Senior management is directly responsible for developing, implementing, and overseeing strategies in line with the company's sustainable growth objectives. All decision-making mechanisms are conducted in accordance with corporate governance principles, grounded in transparency and accountability.

Detailed information on our entire management team can be accessed by scanning the QR code below or by visiting our official website.

https://smartsolar.com.tr/en/yonetim.html

MURAT MERT
Head of EPC

DR. PAPATYA CEYLAN SÖZBİR
Head of Technology Development

NİHAT ÖZDEMİR
Head of Human Resources

AYKUT KORAY ÖZÇELİK
Head of Production Operations and Investments

MUSTAFA EMRE KAYA
Finance Director

TOLGA ÜÇEL
Business Development Director

MUSTAFA YILDIZ
Project Development Director

ALPER UYSALER
Product Development and Marketing Director

ATAKAN ÖZBEK
Investment Director

M. MUSTAFA BAKKALOĞLU
Construction Works Coordinator

SERDAR SOFUOĞLU
Electrical Works Coordinator

Shareholding Structure

Our capital structure is built on a strong and sustainable foundation aligned with our strategic growth objectives. In this context, on October 9, 2023, Smart Holding A.Ş. transferred 12,117,600 non-traded SMRTG shares, which represent 2% of the company's share capital, to an international institutional investor based abroad. Following this transaction, our free float ratio increased to 26.97%.

Following this transaction, our current shareholding structure is as follows:

Smart Holding A.Ş.

442,458,798.53
Share in Capital (TRY)

73.03
Share in Capital (%)

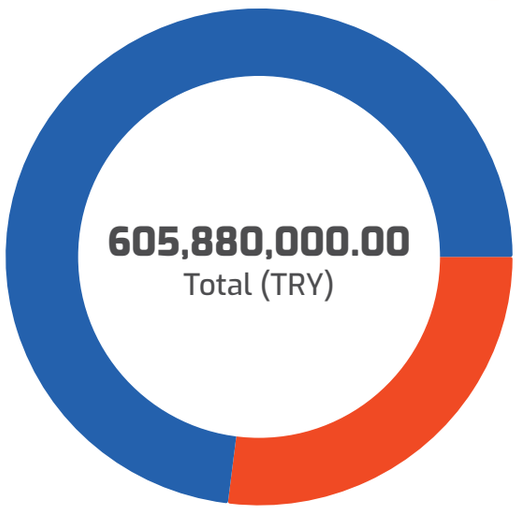
85.92
Voting Rights (%)

Publicly Traded

163,421,201.47
Share in Capital (TRY)

26.97
Voting Rights (%)

14.08
Voting Rights (%)



In line with our shareholding structure and growing investor interest, our investor relations processes are conducted with the same diligence and commitment to transparency. Requests for meetings from institutional and individual investors, as well as analysts, are carefully evaluated, and questions submitted through various channels, primarily via email, are answered in full compliance with applicable regulations.

In line with our medium and long-term growth objectives, we adopted the registered capital system on October 21, 2021, setting the upper limit for registered capital at 2,000,000,000 TRY.

As a result of capital increases within this scope, our issued capital reached 605,880,000 TRY as of 2025.

Our capital distribution by share groups is presented in the table below:

Share Class	Share in Capital (TRY)	Share in Capital (%)
Class A Registered Shares	138,600,000	22.88
Class B Bearer Shares	467,280,000	77.12
Total	**605,880,000**	**100.00**

Class A shareholders are entitled to five votes per share at the General Assembly and hold preferential rights to nominate candidates for the Board of Directors. This structure ensures stability in corporate governance and enhances the effectiveness of decision-making processes.

Since 2021, our company has further strengthened its capital structure through bonus share issues and share buyback programs. Notably, in 2023, we carried out a 98% bonus issue, increasing our share capital from 306,000,000 TRY to 605,880,000 TRY. In addition, under the share buyback program which is valid until 2025, a total of 520,000 shares have been repurchased.

Another vital component of our shareholding structure is our subsidiaries, which enable us to operate in an integrated manner from production to marketing. Focused on areas such as solar power plant equipment manufacturing, panel technology development, trade, and mobile energy solutions, these subsidiaries enhance our global competitiveness.

Our subsidiaries and related entities are listed below:

Trade Name	Country of Operation	The Company's Share in Capital (%)	Relationship with the Company
Smart Solar Ukr LLC	Ukraine	100	Subsidiary
Smart Solar Technology GmbH	Germany	100	Subsidiary
Icarus Solar GmbH	Germany	100	Subsidiary
Smart Sumec Enerji Ekipmanları ve Pazarlama A.Ş.	Türkiye	50	Subsidiary
Smart Güneş Enerjisi Teknolojileri Ar-Ge Üretim Sanayi Ticaret A.Ş. & IHK Holding A.Ş. Konsorsiyumu	Türkiye	60	Subsidiary
Smart GES Enerji Üretim A.Ş.	Türkiye	100	Subsidiary
Smart Güneş Enerji Ekipmanları Pazarlama A.Ş.	Türkiye	100	Subsidiary
Smart Solargize Yeşil Mobilite Enerji A.Ş.	Türkiye	100	Subsidiary
Smart Gunes Tecnologias Renovables, Sociedad Limitada	Spain	100	Subsidiary
Smart Yeşil Hidrojen Teknolojileri ve Üretim A.Ş.	Türkiye	70	Subsidiary
Smart Global Enterprises & Trading B.V.	The Netherlands	100	Subsidiary
Smart Güneş Panel Hücre Üretim Teknolojileri A.Ş.	Türkiye	100	Subsidiary
Smart Energy Global Investment and Development B.V.	The Netherlands	100	Subsidiary
Smart Energy Bulgaria B.V.	The Netherlands	100	Subsidiary
Smart Energy Iberia B.V.	The Netherlands	100	Subsidiary
Smart Energy Romania B.V.	The Netherlands	100	Subsidiary
Smart Energy Overseas Investment B.V.	The Netherlands	100	Subsidiary
Smart Green Energy Technologies Inc	USA	100	Subsidiary
Smart Solar Technologies AD	Bulgaria	100	Subsidiary
Smart Green Energy Trading LLC	USA	100	Subsidiary

Considered collectively, our partnership structure is supported by high-percentage bonus share issuances, share buyback programs, a preferred share structure, and a globally managed portfolio of subsidiaries; this steadily enhances Smart Solar's strategic flexibility and strengthens its competitiveness in sustainable energy technologies.

Our Keys to Success: Commitment to Quality and Value Engineering

Value Engineering

We apply a value engineering approach across all our processes, from production to installation, to ensure optimal efficiency. With this mindset, we develop engineering strategies that perfect the balance of performance, quality, and cost, bringing a value-driven perspective to the sector. We create "value" for the future.

Creating "Value" for the Future, "Good" for Nature

We act with the awareness that every investment in solar energy benefits both nature and the economy. By combining technology and engineering with a commitment to doing good, we add value to the sector and also to our planet. Every project we develop from this perspective is a deliberate step toward a sustainable world.

Commitment to Quality

We take a holistic approach to quality, applying the same high standards across all activities from panel production to delivery. Our commitment to quality, which is a result of our customer-centric approach, ensures that our products and services always meet expectations at the same quality level.

Production Processes and Products

2024: Türkiye Sets All-Time Record in Solar Energy!

- In a single year, our country added over 5,000 MW of installed solar capacity, marking the highest annual increase on record. [1]
- By the end of 2024, solar energy accounted for 17.1% of total installed electricity capacity. [2]
- In 2024, electricity generation from solar power increased by 39% compared to the previous year. [3]

Investment

EPC

PV Solar Panel Production

Cell Production

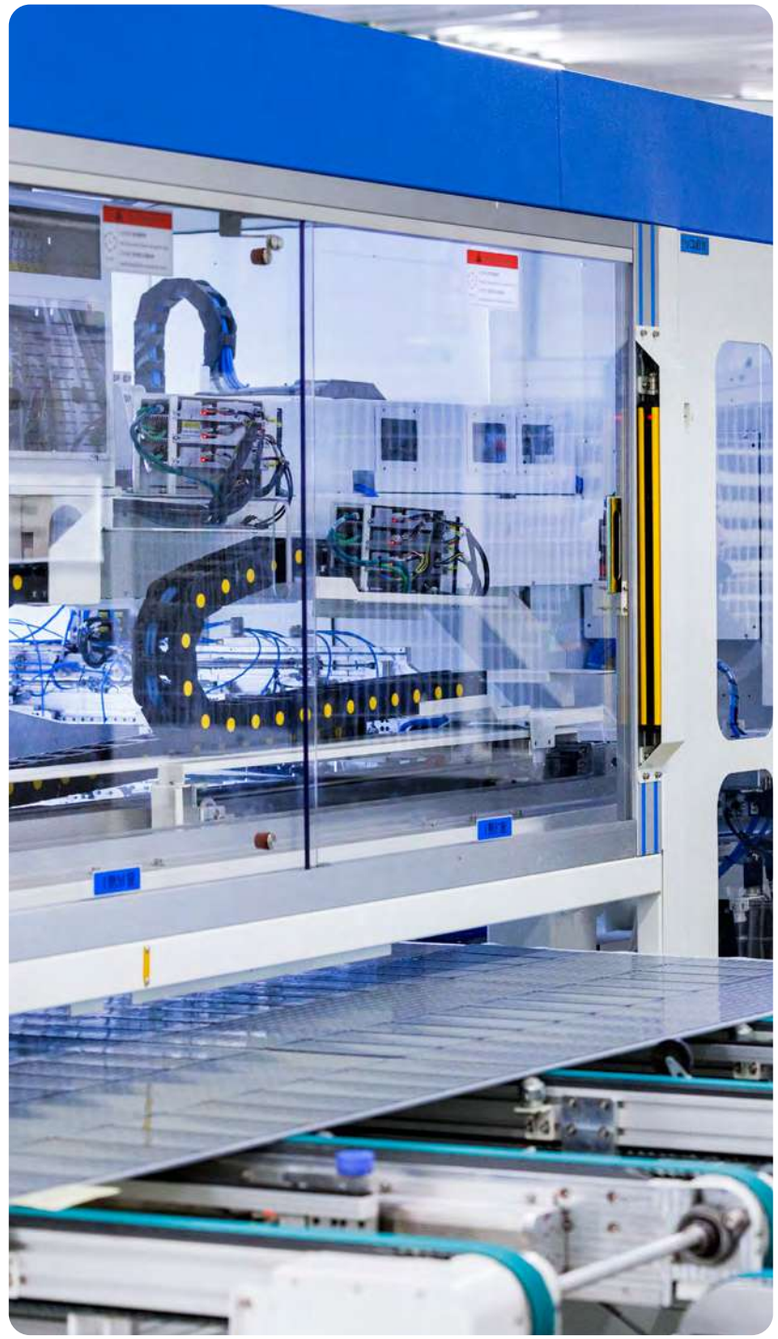
+

Wafer Production

Vertical Integration & Our Competitive Strategy

Smart Solar Technologies operates in major segments of the PV value chain.

We believe in the future of solar energy, and next year we will expand our vertical integration by commissioning a wafer production facility.



[1] Source: ENSİA 2025 - Solar Energy Wins in 2024 ("Enerjide 2024'ün Kazananı Güneş") [2] Source: TEİAŞ - 2024 Year-End Installed Electricity Capacity Report [3] Source: Ember - Türkiye Electricity Review 2025

Solar Panel Production

Smart Solar Technologies is among Türkiye's largest and most innovative solar panel manufacturers with its integrated manufacturing infrastructure and advanced engineering capabilities.

Operating in modern production facilities spanning a total of 69,363 m² in Gebze (Kocaeli), Aliağa (İzmir), and Dilovası, we have an annual solar panel production capacity of 2,400 MW. Our Gebze facility, which began operations in 2017, has an enclosed area of 23,500 m² and a production capacity of 1,200 MW. Commissioned in 2023, our Aliağa I facility has an enclosed area of 38,000 m² and can produce up to 1,200 MW of full-cell panels or 600 MW of half-cut panels annually.

Our production processes utilize advanced technologies, including crystalline silicon-based high-efficiency **monocrystalline PERC, TOPCon, half-cut, multi-busbar (MBB), and bifacial designs.** Our product portfolio offers both monofacial and bifacial options, with power ratings ranging from 400 W to 635 W.

These technologies provide the following performance and efficiency advantages:

- **PERC cell technology** enhances efficiency by passivating the rear surface, capturing more irradiation even in low-light conditions.
- **TOPCon cell technology** delivers 0.5–0.8% higher performance than PERC and integrates seamlessly with glass-glass structures.
- **Half-cut cells** are laser-cut into two parts, reducing resistance losses by up to 75% and minimizing shading effects.
- **Multi-busbar (MBB) technology** increases electrical contact points on the cell, enabling more efficient current collection, while round ribbon application further improves light transmission.
- **Monofacial panels** generate electricity using only the front surface, offering an efficient solution for non-reflective surfaces such as rooftop installations, with simpler system design and installation requirements.
- **Bifacial panels** capture sunlight from both the front and rear surfaces, increasing total energy output.

Our panels are produced in two main cell configurations to meet different application needs: full-cell and half-cut.

Full-cell panels feature a conventional cell layout, offering a reliable and straightforward solution for standard system designs.

Half-cut panels are an advanced design achieved by laser-cutting solar cells in half.

This technology reduces the electrical current per cell, lowers internal resistance losses, and minimizes temperature effects. It also mitigates production losses under partial shading, improving overall system efficiency.

In addition to these cell configurations, our panels are offered with two different backsheet designs: glass-glass and glass-backsheet.

Glass-glass panels provide high mechanical strength and long service life thanks to glass on both sides. Glass-backsheet panels, on the other hand, stand out for their lighter weight and cost advantages.

Each cell type and panel design is engineered to deliver optimal energy generation and application compatibility for different climate conditions, installation surfaces, and system requirements.

Scan the QR code below to access technical details about our solar panels.

https://www.smartsolar.com.tr/en/gunespanelleri.html

Use the QR code below for more information on our completed projects and references.

https://www.smartsolar.com.tr/en/muhendislik-referanslar.html

Solar Cell Production

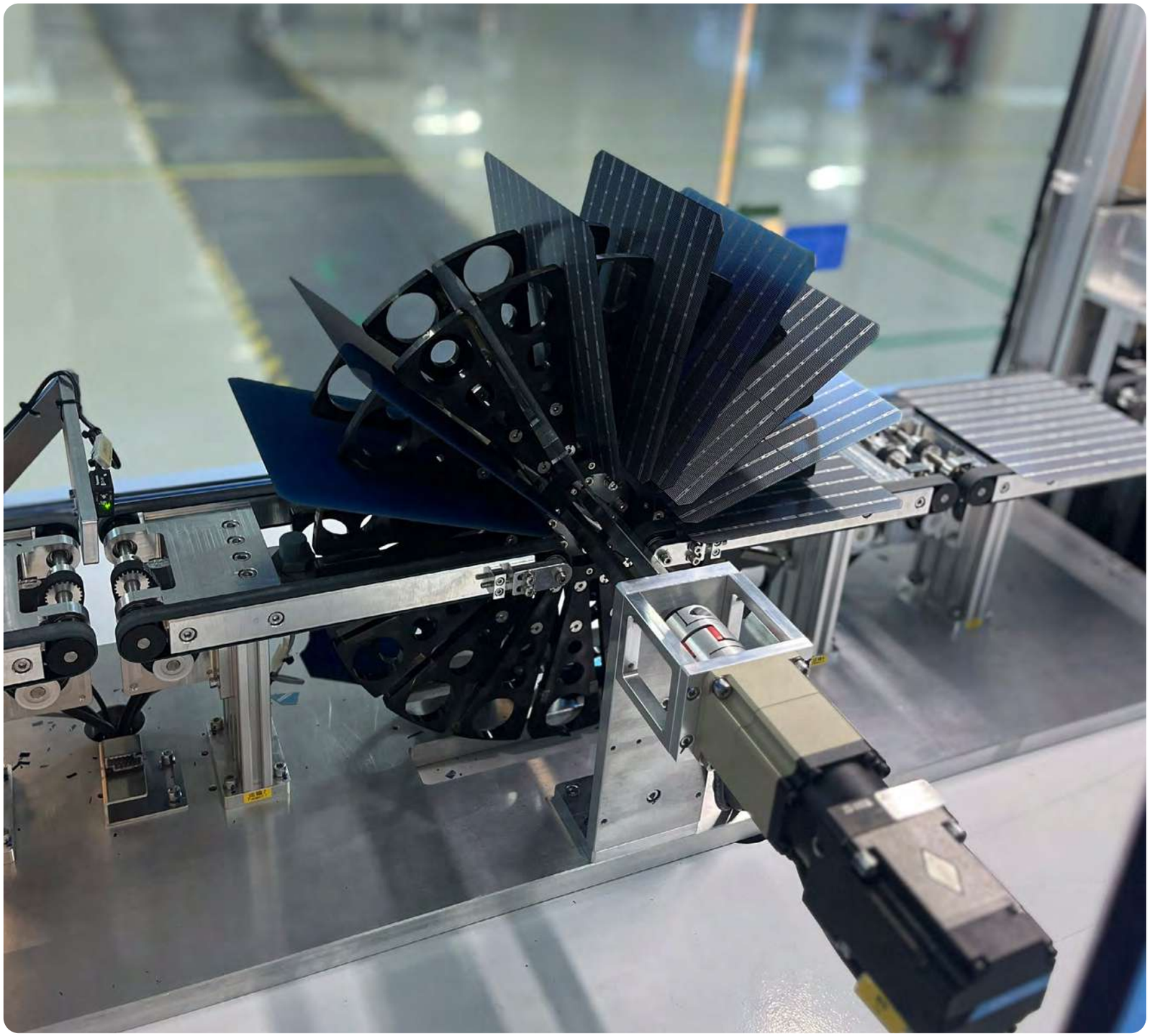
As of 2024, within the scope of the Aliağa II project, an 800 MW-capacity solar cell production line was commissioned at our integrated manufacturing facility, and production activities were started.

With this investment, the cells used in our solar panel production began to be manufactured in-house, yielding the following benefits:

- Strengthened quality control processes, improving product traceability and performance reliability.
- Optimized production costs and increased resource efficiency.
- Ensured technological flexibility in the production chain, enabling rapid adaptation to different product segments.
- Expanded domestic production capacity, contributing to national energy supply security, supporting high-tech industrial development, creating skilled employment opportunities, and reducing strategic foreign dependency.

Having started with PERC cell production, we will continue to advance in the coming period with the planned transition to TOPCon technology and the application of “gettering” processes [4].

We support next-generation TOPCon cell designs, which are developed in collaboration with Fraunhofer ISE, with our R&D processes aimed at achieving advanced efficiency targets.



[4] *Gettering processes: A technique that removes impurities from the active region of the cell during production, extending carrier lifetime and improving efficiency.*

EPC Services (Engineering, Procurement, and Installation)

Smart Solar Technologies is a trusted, fully integrated partner for turnkey solar energy projects with more than 1,000 MW of installation experience and over a decade of expertise.

Our EPC services provide flexible solutions for projects including rooftop products, ground-mounted systems, individual applications, and hybrid systems.

Our main project management services include:

- Project analysis for ground-mounted, rooftop, and façade systems,
- Feasibility studies and production simulations supported by NASA meteorological data,
- Structural and electrical design, preparation of technical specifications and bill of quantities,
- Product procurement, logistics, and site mobilization coordination,
- Remote system monitoring and performance analysis via SCADA infrastructure, and
- Installation, testing, starting operations, and grid connection processes.

All these processes are carried out in line with our value engineering principle, with the goal of ensuring maximum efficiency over a minimum system lifespan of 30 years. All equipment is selected with financial sustainability in mind, ensuring that projects are classified as low-risk by banks and leasing companies.

Use the QR code below for more information on our completed projects and references.

https://www.smartsolar.com.tr/en/muhendislik-referanslar.html

Operations and Maintenance Services

At Smart Solar Technologies, we play an active role in installation processes and also in ensuring the long-term and efficient operation of systems. Thanks to our maintenance and repair services, we optimize investment payback periods and ensure the sustainability of system performance.

Our main services include:

- Rapid spare parts supply,
- Preventive and protective maintenance planning,
- Periodic mechanical and electrical inspections,
- Solar panel and site cleaning, and
- Remote monitoring and performance reporting via SCADA infrastructure.

Our integrated maintenance infrastructure ensures uninterrupted plant operations and operational safety.

Financing Solutions

Smart Solar Technologies offers cost-effective and sustainable financing alternatives to its investors through strong leasing and financing partnerships. These solutions:

- Improve project feasibility,
- Build low-risk investment profiles in the eyes of banks and financial institutions, and
- Support the broader adoption of solar energy investments.

Our financing infrastructure facilitates project implementation for our customers while contributing strategically to sector growth and the national economy.

Accordingly, our sustainable financing approach serves as an effective tool both in customer-focused solutions and in supporting the company's long-term growth objectives.

As a reflection of stakeholder and investor confidence, our first sukuk issuance was successfully completed as part of our stable growth strategies.

Based on an asset-backed, interest-free financing model, this issuance received q total demand of 750 million TRY, further enhancing access to sustainable financial instruments.

Electric Vehicle Charging Systems – Solargize

Our group company, Solargize Yeşil Mobilite Enerji A.Ş., supports sustainable transportation with charging infrastructure solutions for electric vehicles. As of 2024, a total of 32 charging stations, including 30 DC and 22 AC stations, have started operations across Türkiye.

Solargize devices are:

- Compatible with the OCPP protocol,
- Equipped with RFID-based authentication,
- Configured with Wi-Fi, 4G, and Ethernet connectivity,
- Rated IP54/IP65, suitable for both residential and commercial use, and
- Integrated with remote monitoring infrastructure for continuous performance tracking.

In line with our sustainability goals, we are working on various practices and offset mechanisms to reduce the environmental impact of electric vehicle charging infrastructure. We are developing plans to ensure that the energy consumed at charging stations is sourced from renewable energy, with the aim of expanding this initiative through renewable energy certificates in the future.

Within the scope of its R&D and growth vision, Solargize is expanding its customer base through investments in fast-charging technologies, user experience–focused designs, and digital marketing. Partnerships with retail channels have been strengthened, and significant steps have been taken toward expanding into international markets.

Smart Solar Technologies leads the energy transition with a fully integrated structure spanning from solar panel and cell production to engineering services, EV infrastructure, maintenance, and financing solutions. Our company goes beyond meeting today's energy needs and plays an active role in building the future energy ecosystem through green hydrogen and digital energy solutions.

Investments

Expanding Our Integrated Production Capacity: Aliağa and Gebze Investments

We have made investments that cover upstream products[5] in solar panel manufacturing with the aim of enhancing our vertical integration and strengthening our market position. With our investments in Aliağa, we have reached an annual capacity of 2,400 MW for panels and 800 MW for cells.

The launch of cell production has strengthened our control over the supply chain, deepened our level of vertical integration, and positioned us among the leading solar panel and cell manufacturers in Türkiye and Europe.

In 2023, our panel production line started operations, completing the first phase, and produced **721,462 panels** throughout 2024. In the second phase, an 800 MW cell production line, which was completed in just eight months, was launched in July 2024, **producing 18,299,695 cells within six months.**

These cells were supplied to panel production lines for use in YEKA (Renewable Energy Resource Zone) projects[6], raising the local content ratio to over 70%.

The cell production line in Aliağa operates with a 12-step advanced manufacturing process designed to achieve high efficiency. This process includes critical steps such as surface texturing, doping, oxidation, removal of the phosphosilicate glass layer, surface passivation, and metallization.

These advanced processes enhance cell quality and ultimately boost efficiency, while the integrated production structure strengthens traceability, standardization, and operational efficiency across the manufacturing process.

At our Gebze facility, modernization completed in 2024 brought a fourth production line using PERC cells online, increasing production efficiency. As of March 2025, investments are planned to increase panel production capacity by 20%.

In the second half of 2025, automation and AI-supported systems are planned to be integrated into production.

Enhancing Added Value Through Vertical Integration

Smart Solar Technologies aims to make its production structure more resilient and sustainable in the face of potential global supply chain disruptions, geopolitical uncertainties, and rising dependency risks.

Accordingly, the company is deepening its vertical integration to encompass all critical pre-panel stages of solar panel production, contributing to Türkiye's strategic independence.

Within this high–value–added integrated structure, the production of cells, which are the core component of panels, is currently underway, and wafer production, which is the raw material for cells, is scheduled to launch in 2025.

Expanding the supply chain upstream through vertical integration increases technology development capacity, raises quality standards, optimizes costs, and ensures supply continuity. This significantly enhances our company's competitiveness in global markets.

In line with these goals, a 1,500 MW wafer slicing line investment was launched in Aliağa in 2024, with machinery orders completed and commissioning planned for 2025. When these investments are brought to fruition, production relies more heavily on in-house resources, boosting export potential.

This transformation will also bring about a strategic production structure with the potential to positively impact Türkiye's foreign trade balance.

[5] ***Upstream products:*** *Refers to key components in the early stages of solar panel manufacturing, such as cells and wafers.*

[6] ***YEKA projects:*** *Large-scale renewable energy investments in Türkiye that require the use of domestically produced equipment, in zones designated by the Ministry of Energy and Natural Resources. These projects offer incentives such as long-term purchase guarantees and land allocations for investors.*

Contributing to Energy Independence with YEKA Projects

We channel our domestic production capacity into strategic projects, contributing to Türkiye's energy independence. As part of the YEKA GES-2024 competition, which is set to conclude on February 4, 2025, by the Ministry of Energy and Natural Resources, an investment process worth approximately 500 million USD is organized for projects with a total capacity of 800 MW. Our domestically produced cells and panels play a key role in meeting the 75% local content requirement for YEKA projects.

For the Niğde Bor project, which is one of our investments under YEKA, our wholly owned subsidiary Smart GES Üretim A.Ş. obtained a 30-year generation license for a 100 MWe (128 MWp) plant, whose infrastructure is completed in 2024. The plant is scheduled to start operations in 2025.

Strategic Expansion in Europe: Bulgaria, Albania, and Romania

We have taken strategic steps in Europe to strengthen our presence in international markets. As of today, our grid-connected solar power plants in Türkiye and Bulgaria have a combined installed capacity of over 300 MW, including 24 MW in Bulgaria.

A key driver of this growth momentum is our Bulgarian subsidiary, Smart Solar Technologies AD. In 2024, the company was designated a "priority investor" by the Bulgarian government, and its Memorandum of Understanding with the Council of Ministers was officially ratified.

Within the scope of a 122 million EUR investment in Stara Zagora, a 1,500 MW integrated solar panel and cell manufacturing facility will be built on a 160,000 m^2 site, supported by a solar power plant to meet the facility's own energy needs.

Between 2026 and 2029, a total of approximately 34 million EUR in grant-based investment incentives will be provided.

As the investments progress, additional incentive applications may be submitted to the Bulgarian government and the European Union, with updates shared publicly.

In Albania, our consortium won a CfD auction[7] for two projects totaling 60.5 MW, with bid prices of €53.53/MWh and €56.28/MWh.

Although construction has not yet begun, these projects will lay the groundwork for the future expansion of our EPC activities in the Balkans. This development will also contribute to increasing our panel export capacity to the region.

Another pillar of our European growth strategy is Smart Energy Romania B.V. Established in 2023, the company operates under its wholly owned Dutch subsidiary, Smart Energy Global Investment and Development B.V.

Its business scope includes power generation, transmission, and distribution, as well as the procurement, sales, and trade of renewable energy–based products in Romania and other operating markets.

[7] ***CfD Auction:*** *A Contract for Difference (CfD) auction is a mechanism in which the difference between the electricity sale price and a government-set reference price is compensated. This model provides investors with fixed income assurance and protection against price volatility.*

Strategic Moves in the U.S. Market

As part of its global growth strategy, Smart Solar Technologies has taken a significant step by establishing a presence in the U.S. market.

Through its Netherlands-based subsidiary Smart Global Enterprises & Trading BV, the company has incorporated a new entity in Delaware under the name "Smart Green Energy Technologies Inc." Within this scope, integrated solar panel and cell manufacturing facilities with up to 3 GW capacity will be established in at least two different locations in the United States.

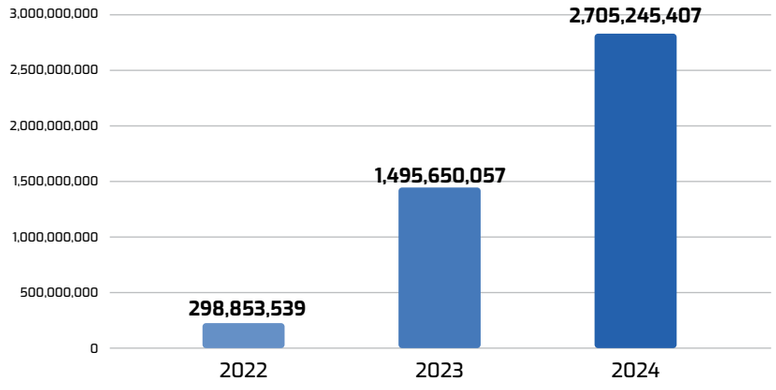
This initiative is a strategic move aimed at strengthening Smart Solar Technologies' presence in the U.S. market and securing a competitive advantage globally.

Furthermore, investment incentives provided under the U.S. Inflation Reduction Act (IRA) are seen as a key strategic enabler for this initiative. In addition, the high import and anti-dumping[8] duties imposed by the U.S. on solar panels from China and Southeast Asia give products sourced from our manufacturing facilities in Türkiye a tax advantage, further enhancing our competitiveness in this market.

Empowerment Through Financing and Incentives

Between 2022 and 2024, total investments exceeding 4.5 billion TRY were realized through Smart Solar Technologies' strong financial planning and effective incentive management. Within this scope, a 1.1 billion TRY Investment Commitment Advance Loan (YTAK) was secured from the Central Bank of the Republic of Türkiye for the integrated manufacturing facility in Aliağa. This loan has a 10-year term, with the first two years being grace years, and was extended at a favorable 9.25% interest rate due to compliance with the local machinery usage requirement. The annual investments for the given period are presented in the chart below:

Total Investment Amount by Year (TRY)



Technological Transformation and Environmental Sustainability Investments

Smart Solar Technologies supports its goals of increasing efficiency and reducing environmental impact in production processes through strategic investments.

As part of the modernization program launched in 2024, AI-supported automation systems are planned to be integrated into production lines at the Gebze and Aliağa facilities, with completion expected in the second half of 2025. In parallel, production lines equipped with next-generation machinery have reduced manufacturing costs while improving product quality and operational efficiency.

These investments deliver operational improvements and also ensure full compliance with international regulations. This transformation is fully aligned with frameworks such as the European Green Deal, the Paris Climate Agreement, and border carbon regulations, further strengthening Smart Solar Technologies' long-term industry leadership.

[8] ***Anti-damping measures*** *are tariff and trade protection mechanisms applied to prevent damage to domestic producers from imported products sold at very low prices (below cost).*

Our Awards, Achievements, and Corporate Memberships

Awards and Achievements

Our Awards

Smart Solar Technologies has been recognized by prestigious organizations for its innovative technologies, sustainability-driven approach, and industry leadership:

- **Turkish Physical Society Honor Award (2024)**
- **Kariyer.net Respect for Humans Award (2024)**
- **Top Brand PV Europe – EPC (2022) – Joint Forces for Solar Global, EuPD Research**
- **Solar Champion (2022) – Smart Solar Technologies**
- **Top Brand PV Europe – EPC (2023) – Joint Forces for Solar Global, EuPD Research**
- **ICCI Energy Awards (2023)**

Our Achievements

Our performance in financial growth, corporate transparency, and sustainability has been validated through national and international recognition:

- **Deloitte Technology Fast 50 Türkiye (2024)**
- **Fortune 500 Türkiye List (2024)**
- **TOBB Türkiye's Top 100 Fastest-Growing Companies (2022)**
- **ISO 500 – Türkiye's Top Industrial Enterprises (2023)**

Sustainability and Corporate Performance

- **Included in the BIST Sustainability Index (2024)**
- **Participated in the CDP – Climate Change Program (2024)**
- **Included in the BIST 100 Index (2022)**

Corporate Memberships

At Smart Solar, we reinforce our commitment to sustainability, energy investments, and sectoral development by maintaining membership in numerous prestigious organizations at both the national and international level. These memberships not only expand our influence in the sector but also lay the groundwork for global collaborations.

National Memberships

- Business Council for Sustainable Development Türkiye (SKD Türkiye)
- Turkish Industry and Business Association (TÜSİAD)
- Corporate Governance Association of Türkiye (TKYD)
- Energy Industrialists and Business Association (ENSİA)
- Istanbul Mineral and Metals Exporters' Association (İMMİB)
- Solar Energy Industrialists and Industry Association (GENSED)
- International Solar Energy Society – Türkiye Section (ISES-TR)
- Energy Investors Association (GÜYAD)
- Solar STK
- Turkish Investor Relations Society (TÜYİD)
- Electrical Engineers Association (ETMD)
- Foreign Economic Relations Board of Türkiye (DEİK)

International Memberships

- UN Global Compact
- Solar Energy Industries Association (SEIA)
- Ultra Low-Carbon Solar Alliance
- European Solar Manufacturing Council (ESMC)
- EuPD Research
- European-Ukrainian Energy Agency (EUEA)
- PV Cycle
- Turkish Ukrainian Business Association (TUİD)

Our Sustainability Approach

Our Sustainability Approach

At Smart Solar Technologies, in line with our "Faces to the Sun" motto, we shape every step of our operations with a focus on sustainable development. We act with a mindset that respects the right to life of future generations, minimizes environmental impact, prioritizes social benefit, and is grounded in corporate transparency. Accordingly, we follow a roadmap fully aligned with the United Nations Sustainable Development Goals (SDGs), placing environmental, social, and governance (ESG) criteria at the core of our business model.

With the Sustainability Policy we introduced in 2023, we made sustainability not just a goal but an inseparable part of the way we do business. In this context, we are restructuring our operations to expand our sustainability scope, focusing on climate change mitigation, energy efficiency, and green transformation in line with our 2040 net zero target.

The first global-scale outcomes of this strategic approach were realized in 2024 when we received a "B" rating from the CDP Climate Change Program. We have demonstrated the credibility of our sustainability practices by ensuring that our performance is evaluated through transparent and independent audits at the international level. In the same year, we were included in the Borsa Istanbul (BIST) Sustainability Index, further demonstrating that our corporate sustainability practices have been recognized and approved by an institution with rigorous international assessment processes.

Another key strength underlying these achievements is our strategic focus on R&D and innovation. Through R&D activities focused on developing accessible, eco-friendly, and clean energy solutions, we continue to strengthen our sustainable product portfolio year after year.

To support these solutions, we operate with a responsible production approach, effectively manage ESG risks, and build a reliable corporate structure that adheres to human rights, ethical principles, and international standards.

We move our sustainability approach beyond strategic documents, putting our sustainability goals into action at the operational level. One of the most prominent examples of this approach is our Smart Walk program.

Led by our environmental engineers, this practice is carried out at all our production and project sites, primarily at our Aliağa and Gebze facilities, and serves as a participatory, self-assessment-based internal audit process where environmental impacts, occupational health and safety conditions, and quality standards are evaluated holistically.

Representatives from each department actively participate in these walks, during which identified areas for improvement are documented and systematically followed up through corrective and preventive actions.

Similar to the widely recognized "Gemba Walk"[9] practice in the automotive sector, this approach allows employees to take on both the role of auditor and auditee, enhancing corporate awareness and fostering ownership. As of 2024, five site walks have been carried out in İzmir and eight in Gebze.

[9] ***Gemba Walk:*** *Derived from the Japanese term genba, meaning "the real place," this approach refers to observation and engagement visits regularly conducted by managers or relevant stakeholders at the actual site where processes occur. Developed within the lean manufacturing philosophy, the Gemba Walk method is applied to assess operational processes on-site, establish direct communication with employees, and identify opportunities for improvement.*

Additional control processes that support these initiatives include regular environmental audits, daily routine checks, ESG audits, and waste site inspections, ensuring the continuity of our ESG performance in a proactive manner. All of these practices enable the real-time, inclusive implementation of our sustainability approach in the field.

At the heart of the long-term strategy that takes this framework even further lies our commitment to combating climate change. Our comprehensive roadmap to achieve Net Zero by 2040 sets out our actions in areas such as emission reduction, resource efficiency, integrated reporting, and sustainable finance in a systematic and measurable way.

You can access the detailed timeline of our Net Zero targets by clicking this link.

The prioritized areas we have identified to achieve these targets, along with our corresponding initiatives, are summarized in the table below:

Prioritized Areas	Activities
R&D and Innovation	Developing clean and environmentally friendly energy solutions
Sustainable Supply Chain	Promoting responsible sourcing through supplier training programs
ESG Risk Management	Analyzing risks across the entire value chain, from raw material procurement to production
Human Rights and Ethics	Implementing policies aligned with ILO and UN conventions and ensuring transparent reporting processes

We make our sustainability commitments visible in our corporate culture as well as our operations. In this context, we have published the following policy documents:

- **Human Rights Policy**
- **Supplier Code of Conduct**
- **Supply Chain Policy**
- **Sustainability Policy**
- **Equal Opportunity, Diversity and Inclusion Policy**
- **Environment and Climate Change Policy**
- **Energy and Resource Efficiency Policy**

Full versions of all our policy documents can be accessed via the QR code below.

https://www.smartsolar.com.tr/en/surdurebilirlik-dokumanlari.aspx

Finally, in 2023, we signed the United Nations Global Compact, formally committing to its ten universal principles on human rights, labor standards, environment, and anti-corruption, demonstrating our commitment to a corporate responsibility approach grounded in global principles throughout our sustainability journey.

Sustainability Governance Structure

At Smart Solar Technologies, we view sustainability not only as an environmental responsibility but also as a core element of our business strategy, decision-making processes, and corporate culture. In line with this approach, we have established a multi-layered, integrated governance structure that extends from the Board of Directors down to operational units.

To ensure that sustainability processes are addressed at the strategic level, we established the Sustainability Committee in 2022. Chaired by our independent board member, Ms. Hülya Kurt, and composed of three members, the committee is responsible for structuring sustainability within the company, developing and embedding the sustainability strategy, and supporting sustainability initiatives executed by the management.

While sustainability activities were initially carried out under the direct oversight of the Chair of the Board, the growth of our sustainability targets and diversification of activities over time created the need for a more institutionalized and inclusive structure. In response to this need, by the end of 2024 all sustainability-related processes were restructured under the newly established Sustainability and Corporate Relations Directorate.

This new structure created a governance framework within management that fully addresses sustainability and assumes direct responsibility in this area. As a result, key areas such as ESG risk management, sustainable supply chain practices, operation of environmental management systems, and alignment of production processes with sustainability principles are now coordinated more effectively and in a more integrated manner.

This structure ensures that our sustainability initiatives are directly overseen by the company's top executive and embraced as a strategic priority across the entire organization.

The strategic integration of this structure into sustainability efforts is led directly by the Board of Directors. The Board holds ultimate responsibility for overseeing climate-related risks and opportunities. During the annual strategy approval process, the Board reviews the net-zero roadmap and scenario analyses, and places progress reports on sustainability targets on its agenda at least four times a year.

At Smart Solar Technologies, sustainability management is carried out by the Sustainability and Corporate Relations Directorate under the strategic oversight of the Board of Directors. This structure enables all operational units, including Environmental, Social and Governance (ESG) Risk Management, Sustainable Supply Chain Management, the Environmental Management System, and facilities organizations, to operate in full integration.

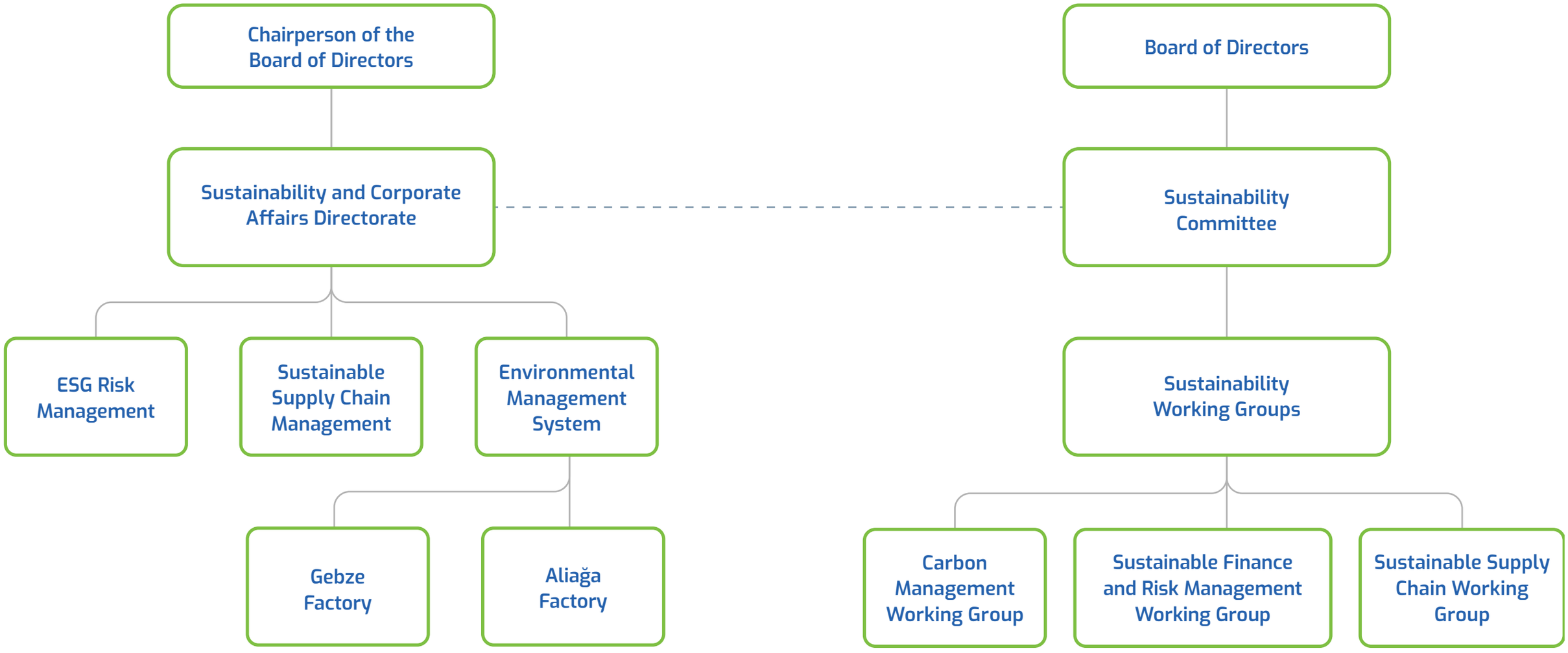
Established in 2022, the Sustainability Committee operates in line with the Capital Markets Board's "Sustainability Principles Compliance Framework," assuming responsibility for developing ESG policies and strategies, monitoring performance, and evaluating reports, and reports directly to the Board of Directors.

The Board reviews the Sustainability Committee's presentations at least once a year and ensures that these activities align with the company's strategies.

Several thematic working groups operate under the Sustainability Committee. The Carbon Management Working Group and the Sustainable Supply Chain Working Group are currently active, while the organizational structure of the Sustainable Finance and Risk Management Working Group has been established, with operations planned to begin next year.

In line with our Corporate Risk Management Policy, we are committed to achieving all our strategic goals through a proactive and dynamic risk management system compliant with ISO 31000 standards and informed by a sustainability perspective. Within the scope of this policy, uncertainties are defined and managed not only as "risks" but also as "corporate opportunities."

Sustainability Governance Structure



Sectoral Engagement

In addition to applying our sustainability vision internally, we also bring it to national and international platforms. Throughout the year, our senior executives participate in numerous conferences, summits, and training events, sharing our expertise with the industry and communicating Smart Solar Technologies' stance to wider audiences. Below are some of the notable events attended by our executives in 2024 and their contributions:

Name	Title	Event	Speech Title / Content	Date
Dr. Papatya Ceylan Sözbir	Head of Technology Development	Adana Chamber of Industry Seminar	Solar Energy and Energy Storage	17.01.2024
Halil Demirdağ	Chairperson of the Board	6th Efficiency and Technology Fair	V Talks	8.02.2024
Borga Karagülle	Head of Business Development and Sales	Gebze Güzeller Organized Industrial Zone (OIZ) Event	Government Incentives in Energy Projects and the Future of Energy	8.02.2024
Dr. Papatya Ceylan Sözbir	Head of Technology Development	Istanbul City Council	Women in Science Speak on the Purple Podium	11.02.2024
Havva Köroğlu	Head of Internal Audit	ITU Career Summit	ITU Career Summit Seminar	20.02.2024
Tolga Üçel	EPC Business Development Director	ITU Career Summit	ITU Career Summit Seminar	20.02.2024
Halil Demirdağ	Chairperson of the Board	6th Energy and Climate Forum	Green Transformation: How Can the Energy Industry Achieve It?	7.03.2024
Tolga Üçel	EPC Business Development Director	GREENENERGY'24	GREENENERGY'24 Energy Summit / Gebze Technical University	15.03.2024
Borga Karagülle	Head of Business Development and Sales	SolarEx İstanbul Fair 2024	Solar Panel and BoS Price Trends and Comparison	5.04.2024
Halil Demirdağ	Chairperson of the Board	9th Istanbul Carbon Summit	Carbon Management and Energy	7.05.2024
Dr. Papatya Ceylan Sözbir	Head of Technology Development	Bursa BUTEKOM	The Role of Domestic Production in Cell Manufacturing	8.05.2024
Emre Kaya	Finance Director	17th Eduplus Finance Summit	Opportunities and Risks Facing Financial Management in the Digital Age	14.05.2024
Halil Demirdağ	Chairperson of the Board	TSKB Development Day	The Role of Capital Markets in Development Banking	4.06.2024
Halil Demirdağ	Chairperson of the Board	Dünya Newspaper Climate Economy Summit	Access to Sustainable Finance in the Energy Sector and the Situation in Türkiye	7.06.2024
Dr. Papatya Ceylan Sözbir	Head of Technology Development	PVCON 2024	-	4.07.2024
Havva Köroğlu	Head of Internal Audit	7th Our Strength is Our Equality Summit	Equal Pay for Equal Work: Corporate Responsibilities and Best Practices	12.09.2024

Name	Title	Event	Speech Title / Content	Date
Filiz Avşar Aktaş	Head of Sustainability and Corporate Relations	S&P Global and Trasta ESG Sustainable 1 Webinar	The Sustainability Journey and Practices	18.09.2024
Filiz Avşar Aktaş	Head of Sustainability and Corporate Relations	EU PVSEC	European PV Manufacturing in Stormy Times	23.09.2024
Hülya Kurt	Independent Board Member	Istanbul Chamber of Commerce – Carbon Footprint	Carbon Footprint and Sustainability	15.10.2024
Halil Demirdağ	Chairperson of the Board	SAP Executive Summit	Transformation Stories of Future-Ready Companies	22.10.2024
Damla Sezgin Yoluaçık	Information Technologies Director	Informatics Summit (Bilişim Zirvesi'24)	-	24.10.2024
Filiz Avşar Aktaş	Head of Sustainability and Corporate Relations	COP29	Innovation and Adaptation in the Climate Crisis: Technology for the New Normal	13.11.2024
Hülya Kurt	Independent Board Member	COP29	Can Strong ESG Practices Lead to More Sustainable and Less Risky Business?	13.11.2024
Havva Köroğlu	Head of Internal Audit	Boğaziçi Energy Summit	-	16.11.2024
Filiz Avşar Aktaş	Head of Sustainability and Corporate Relations	COP29	Progress in the Renewable Energy Transition: Future Milestones in Europe	16.11.2024
Halil Demirdağ	Chairperson of the Board	ESİAD Investment Summit 2024	-	22.11.2024

Among these events, the COP29 Summit stood out as a key platform where we showcased our sustainability vision on a global stage. At the summit, we presented our views on Europe's renewable energy transition process and shared our solutions with international stakeholders. This allowed us to contribute to the global sustainability agenda while also laying the groundwork for new collaborations.

Sustainability Awareness in Our Corporate Culture

We carry out a wide range of awareness-raising initiatives for our employees to integrate sustainability into our corporate culture. In this context, we aim to increase daily awareness by displaying visual materials and informative posters in our facilities, while also keeping sustainability topics on the agenda through written content, internal communication channels, and regular information bulletins.

We conducted the Environmental Awareness Survey aimed to reinforce our team's environmental consciousness. At the end of the survey, our Sustainability Committee Chair, Ms. Hülya Kurt, and our Chairman of the Board, Mr. Halil Demirdağ, presented awards to the top-ranked employees. This ceremony served as a reminder that sustainability is not just a managerial duty but a shared collective responsibility.

Smart Solar Technologies places strong emphasis on initiatives that raise employee awareness of climate change risks. Throughout 2024, Smart Solar:

- Conducted environmental awareness surveys and rewarded environmentally conscious employees based on the results.
- Developed visual and written communication materials to raise awareness under the waste management system.
- Prepared sustainability-themed visuals and posters and displayed them at company facilities.
- Organized environmental training for all employees in collaboration with the Chamber of Environmental Engineers (ÇMO).
- Delivered sustainability training led by experts from relevant fields to all employees.
- Prepared a green agenda and planned events, written and visual communication campaigns, and awareness activities during sustainability-themed special days and weeks.
- Planned the preparation and regular distribution of an Environmental Bulletin to employees.

Through all these efforts, we treat sustainability not only as a strategic priority but also as a governance principle embedded into our decision-making processes. Our first Sustainability Report, published in 2023, reinforced this approach by making our approach more systematic and aligning it with the principles of transparency, accountability, and traceability. In the coming period, we will continue to strengthen this framework, enhancing our performance not only through operational outcomes but also by advancing our corporate mindset.

Sustainability Committee

We established our Sustainability Committee in 2022 in line with the Capital Markets Board's Sustainability Principles Compliance Framework to systematically track our sustainability targets across the organization, embed the ESG principles we have defined at the core of all decision-making processes, and shape our sustainability strategies with a holistic approach.

Our committee treats sustainability as a strategic priority, evaluating current practices and shaping our sustainability roadmap to support continuous improvement in ESG performance.

Formed with the approval of the Board of Directors, our committee consists of three members and is chaired by our independent board member, Ms. Hülya Kurt. Meeting at least four times a year, the committee coordinates a wide range of activities, including the preparation of our sustainability roadmap, the development of our ESG strategy, the creation of carbon reduction projects, and the proactive management of risks and opportunities.

It is also responsible for preparing and publicly disclosing relevant reports in line with the CMB's Sustainability Principles Compliance Framework. To ensure our sustainability efforts are carried out in a more in-depth, multidisciplinary, and expertise-driven manner, we have established several working groups under the committee. These groups focus on specific thematic areas, providing data, analysis, and implementation support to the committee's decision-making processes.

The main working groups within this structure are as follows:

Sustainable Supply Chain Working Group:

This group works to strengthen environmental and social sustainability within the supply chain and includes expert representatives from procurement, logistics, planning, business development, EPC, and legal departments. The group focuses on implementing sustainable procurement criteria, ensuring polysilicon traceability requirements within sustainable supply chain management, and applying supplier codes of conduct. Operating under the Sustainability Committee, the group ensures that the company's supply chain strategies align with sustainability principles.

Carbon Management Working Group:

The Carbon Management Working Group shapes Smart Solar Technologies' climate change mitigation strategies and monitors developments in carbon management. The group conducts analyses on carbon regulations in Türkiye and abroad, market mechanisms, and global classifications such as the green taxonomy. Assessing the company's position in carbon markets, this working group analyzes and supports emission reduction strategies through carbon credit systems such as I-REC. It collaborates with the Sustainable Finance and Risk Management Working Group on scenario analyses related to climate risks and opportunities. The group includes experts from various departments, and its findings are reported to the Sustainability Committee.

Sustainable Finance and Risk Management Working Group

The organizational structure of the has been established, with operations planned to start in 2025. The group is designed to operate with participation from experts in the Sustainability and Corporate Relations Directorate, as well as the finance and risk management departments. Its responsibilities are to assess the impact of ESG-related risks and opportunities on the company's financial structure, analyze sustainable financing instruments, and contribute to the prioritization of green investments.

The group will also be responsible for coordinating the financial aspects of all sustainability and ESG-focused reporting processes, particularly those under CDP and TSRS (Türkiye Sustainability Reporting Standards). Within this scope, the group will manage the financial implications of climate risks, conduct scenario analyses, and ensure the integrated management of ESG data, with all outputs reported to the Sustainability Committee.

The analyses and recommendations produced by the working groups enable the concrete integration of our sustainability policies into business processes. Through these structures, the committee effectively coordinates the integration of sustainability into both strategic decision-making and operational practices.

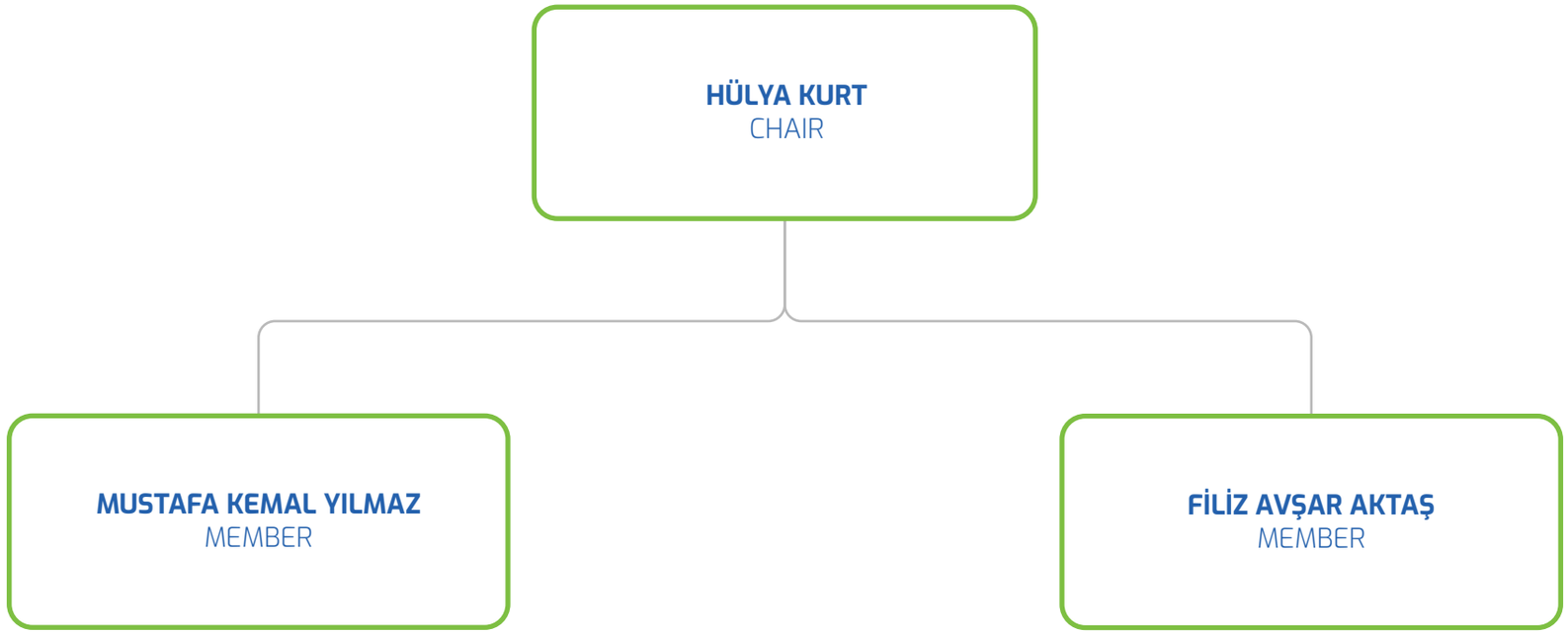
The committee's core objectives are to:

- Ensure the development of sustainability policies based on ESG principles within our company, identify priority areas for sustainability, and set short, medium, and long-term goals, strategies, and policies,
- Develop a sustainability-focused business model and create projects to integrate sustainability into business processes,
- Monitor the implementation of these policies across all departments and ensure their continued effectiveness,
- Ensure that sustainability practices are carried out in line with our company's operations,
- Implement projects aimed at reducing carbon emissions in business processes, in line with climate change mitigation efforts and the company's net zero target,
- Regularly assess developments to identify risks and opportunities, and
- Keep our sustainability performance transparent and measurable.

Our annual Sustainability Report, which contains the output of these efforts, is reviewed in detail by the committee and submitted to the Board of Directors for approval. The approved report is published in both Turkish and English on our website and shared with all stakeholders.

Thanks to this structure, we define our sustainability goals and collectively implement them across the organization, strengthening a responsible, transparent approach that creates long-term value.

Click here for detailed information on our committee's principles.



Sustainability Policy

At Smart Solar Technologies, we operate a business model that supports sustainable development in every aspect of our activities, considers social and environmental impacts, and creates value for stakeholders. Developed in line with this approach, our Sustainability Policy defines our commitments, priorities, and implementation principles related to sustainability within a comprehensive framework. The Policy aims to create value in all areas where we operate by considering our environmental, social, and governance (ESG) impacts, and to share this value transparently with our stakeholders.

Our Sustainability Policy was prepared under the leadership of Smart's senior management, with contributions from relevant business units, and based on national and international standards. The Policy was approved by the Board of Directors on November 23, 2022 (Resolution No. 2022/46) and is one of the core policy documents guiding the company's strategy. The document is regularly reviewed by the Sustainability Committee in line with changing conditions and developments in sustainability, and updated when deemed necessary.

In line with our Policy, we make concrete commitments in areas such as combating climate change, energy and resource efficiency, circular economy, human rights and equality, local development, transparency, and adherence to ethical principles. We conduct all our activities in alignment with the United Nations Sustainable Development Goals (SDGs), integrating sustainability into all our processes to create long-term value.

Our sustainability performance is monitored and guided by the Sustainability Committee in line with the targets we have set.

In addition, we regularly deliver awareness-raising and capacity-building training on sustainability to ensure that all employees embrace this approach.

Our Policy ensures that sustainability principles become a corporate reflex within the company, enabling Smart Solar Technologies to continue operating with a business model that contributes to society, the environment, and the economy.

You can access the full text of our Sustainability Policy by scanning the QR code below.

https://www.smartsolar.com.tr/en/surdurebilirlik-dokumanlari.aspx

Climate-Based Risks and Opportunities

We address climate risks in conjunction with our sustainability risks, integrating them into our corporate risk inventory and managing them through a holistic approach. We analyze climate scenarios that could affect our business continuity, assess their potential impacts, and implement the necessary action plans.

Corporate Governance and Structure

The ultimate oversight responsibility for risks and opportunities arising from climate change rests with the Board of Directors of Smart Solar Technologies. The board evaluates the alignment of sustainability matters with the company's strategies and regularly reviews the work of the Sustainability Committee in this context. At least once a year, the report prepared by the Sustainability Committee is reviewed by the board.

Operating within Smart Solar Technologies, the Sustainability Committee is responsible for coordinating processes for the assessment and management of climate-related risks and opportunities at the corporate level. The committee facilitates the flow of information between departments and guides initiatives aimed at strengthening climate resilience.

As part of the functional restructuring efforts, various thematic working groups operate under the Sustainability Committee. As previously detailed, these working groups provide corporate support in the areas of carbon management, sustainable finance and risk management, and sustainable supply chain.

The structure of the Sustainable Finance and Risk Management Working Group has been established, with plans to start operations in 2025.

Risk Assessment Process and Scenario Analysis

Smart Solar Technologies conducts a comprehensive analysis process that covers both physical and transition risks arising from climate change.

The detailed climate risk analysis carried out in 2024 was used in CDP reporting and presented to senior management for review. This work covers short, medium, and long-term impact and probability assessments within climate scenarios, as well as potential financial implications.

The assessment process accounted for the following elements:

- Physical risks such as site-specific water stress, flood risk, and heatwaves,
- Transition risks such as carbon regulations and sustainable finance requirements,
- Action plans based on climate risks in the supply chain, and
- Scenario analyses of the potential financial impacts of these risks.

The resulting analysis has been used as input for both operational and financial decision-making, with concrete action plans defined in areas such as energy efficiency, wastewater management, supply chain optimization, and prioritization of green investments.

Smart Solar Technologies' "Almost Net Zero 2030" and "Net Zero 2040" targets are among the core elements of the risk assessment process and shape the company's long-term climate strategy.

To ensure traceability of these processes and reinforce compliance with international standards, a greenhouse gas emissions inventory has been prepared and reported in accordance with ISO 14064-1:2018.

Double Materiality Assessment

For the 2024 sustainability report, Smart Solar Technologies applied a double materiality approach covering both the impact materiality and the financial materiality of its climate risks.

The process was carried out in 8 steps, based on TSRS and GRI guidelines:

Step	Application
1. Identification of Material Topics	16 material topics were identified through stakeholder surveys.
2. Climate Risk Workshops	The Risk and Sustainability Team conducted an online workshop in line with their role definitions under TSRS 2 to identify climate risks.
3. Risk Classification	All climate risks were labeled as Physical (acute/chronic) or Transition (regulatory, market, technology, reputation).
4. Scenario Analysis (NGFS)	The exposure level of each risk was analyzed using "Net-Zero" and "NGFS" scenarios.
5. Risk Assessment	The exposure level of each risk was analyzed using "Net-Zero" and "NGFS" scenarios.
6. Time Frame	Risks were assigned action windows based on short (1–3 years), medium (3–5 years), and long-term (over 5 years) horizons.
7. & 8. Financial Materiality & Balance Sheet Mapping	Each risk was linked to the relevant balance sheet item (revenue, CAPEX, asset impairment, etc.), and monetary impacts were calculated based on scenarios.

The methodology we follow in analyzing climate risks is outlined below:

Scenario Analysis

Scenario analysis was conducted to identify climate risks arising from our operations, along with potential risks associated with each scenario.

The purpose of the scenario analysis is to determine how climate-related risks could affect the company's activities, operations, and, ultimately, its financial structure.

The methodology we follow in this context can be summarized as follows:

- In the selection of climate scenarios, NGFS scenarios that can serve as a global reference point were chosen as a starting point.
- The economic and financial impacts of climate risks were evaluated.
- Actions and investments to mitigate residual risks were identified, accounting for existing investments and measures.

Please click here for detailed information on the scenarios we used as a basis for identifying risks.

Risk Assessment

Within the scope of the company's corporate risk management policies and procedures, climate risks have been evaluated based on the defined risk impact and likelihood levels, as well as the company's risk appetite. The potential impacts of these risks have also been assessed in terms of their likelihood of occurring in the short, medium, and long term.

Impact and probability definitions used in risk assessment are listed below:

IMPACT			
Impact Level	**Impact**	**Definition**	**Description**
5	**Critical**	Events that could cause damage to the organization as a whole, result in long-term significant deviation from objectives, and potentially lead to bankruptcy.	* Financial impact: If such a risk occurs, the loss to the company would be a decrease in revenue of 5% or more. * Operational impact: If such a risk occurs, there could be operational interruptions of 60.4 days/year or more at the Aliağa facility and 113.3 days/year or more at the Gebze facility. * Reputational impact: If such a risk occurs, there could be a critical effect on the company's reputation with financial markets, regulatory authorities, strategic partners, and the public. * Legal/Compliance impact: If such a risk occurs, non-compliance with legislation and/or contractual obligations could result in major business losses and significant fines/legal warnings (see financial impact). * Political impact: If such a risk occurs, critical disputes with political authorities could result in major business losses, fines, and reputational damage.
4	**High**	Events that could cause damage to the organization as a whole, result in long-term significant deviation from objectives, and potentially lead to bankruptcy.	* Financial impact: If such a risk occurs, the loss to the company would be a 3%–5% decrease in revenue. * Operational impact: If such a risk occurs, there could be operational interruptions of 36.3–60.4 days/year at Aliağa and 68–113.3 days/year at Gebze. * Reputational impact: If such a risk occurs, there could be a high-level effect on the company's reputation with financial markets, regulatory authorities, strategic partners, and the public. * Legal/Compliance impact: If such a risk occurs, non-compliance with legislation and/or contractual obligations could result in significant business losses and fines/legal warnings (see financial impact). * Political impact: If such a risk occurs, high-level disputes with political authorities could result in major business losses, fines, and reputational damage.
3	**Moderate**	Events that can be tolerated by the organization but result in long-term negative effects at a critical level and have serious consequences.	* Financial impact: If such a risk occurs, the loss to the company would be a 1.5%–3% decrease in revenue. * Operational impact: If such a risk occurs, there could be operational interruptions of 18.1–36.3 days/year at Aliağa and 34–68 days/year at Gebze. * Reputational impact: If such a risk occurs, there could be a medium-level, short-term effect on the company's reputation. * Legal/Compliance impact: If such a risk occurs, non-compliance with legislation and/or contractual obligations could result in medium-level business losses and fines/legal warnings (see financial impact). * Political impact: If such a risk occurs, medium-level disputes with political authorities could result in business losses, fines, and reputational damage.

IMPACT			
Impact Level	**Impact**	**Definition**	**Description**
2	Low	Large-scale events that can be managed with additional resources and managerial efforts.	* Financial impact: If such a risk occurs, the loss to the company would be a 0.5%–1.5% decrease in revenue. * Operational impact: If such a risk occurs, there could be operational interruptions of 6–18.1 days/year at Aliağa and 11.3–34 days/year at Gebze, and/or performance degradation. * Reputational impact: If such a risk occurs, there could be a low-level, short-term effect on the company's reputation. * Legal/Compliance impact: If such a risk occurs, non-compliance with legislation and/or contractual obligations could result in low-level business losses and fines/legal warnings (see financial impact). * Political impact: If such a risk occurs, low-level disputes with political authorities could result in business losses, fines, and reputational damage.
1	Very Low	Events that can be managed with existing operations and controls.	* Financial impact: If such a risk occurs, the loss to the company would be a decrease in revenue of less than 0.5%. * Operational impact: If such a risk occurs, there could be operational interruptions of 0–6 days/year at Aliağa and 0–11.3 days/year at Gebze (x > 2,265,684 USD), and/or performance degradation. * Reputational impact: If such a risk occurs, there could be a very limited, short-term effect on the company's reputation. * Legal/Compliance impact: If such a risk occurs, non-compliance with legislation and/or contractual obligations could result in insignificant business losses and fines/legal warnings (see financial impact). * Political impact: If such a risk occurs, there could be very limited disputes with political authorities.

The probability of a risk occurring has been defined on a time-based scale as shown below. The expected frequency within the defined time range is also presented in the table as short, medium, and long-term:

Probability			
Probability Level	**Probability**	**Definition**	**Probability Value**
5	**Very Frequent**	An event that is almost certain to occur More than once a year 80-100%	100%
4	**Frequent**	An event expected to occur with high likelihood Every year 60-80%	80%
3	**Likely**	An event likely to occur Once every 2 years 40-60%	60%
2	**Occasional**	An event with a low probability to occur Once every 3-5 years 20-40%	40%
1	**Rare**	An event that is unlikely but not impossible Once every 5 years 1-20%	20%

A sustainability topic is considered financially material if it presents significant risks and opportunities that could affect the company's future cash flows, operations, or share value in the short, medium, or long term. The financial materiality is rated on a scale from 1 (lowest impact) to 5 (highest impact).
The assessed risks and opportunities were analyzed in terms of their potential impact on Smart Solar Technologies' revenue, as well as on relevant items in the balance sheet and income statement. The financial impact of each risk was scored on a scale from 1 (lowest) to 5 (highest) to determine its degree of financial materiality.
The company's risk appetite is defined in the Corporate Risk Management Regulation as "the upper limit that identifies acceptable and unacceptable risks in connection with the company's risk-taking capacity."
The Early Risk Detection Committee has set this limit to maintain exposures at or below a "Moderate" risk score at an acceptable level.

Detailed analysis results on the operational and financial impacts of the risks are presented in the Climate-Based Risk Analysis Table in the appendix section of this report.

Please refer to the relevant table for an in-depth review.

Sustainability Goals

SDGs	Target*	Base Year	By the 2030 interim target year	
	Zero Accident Journey	2024	50%	↓
	OHS Training	2024	50%	↑
	Scope 1 CO_2 Emissions (tCO_2e)	2022	30%	↓
	Scope 2 CO_2 Emissions (tCO_2e)	2022	50%	↓
	Scope 3 CO_2 Emissions (tCO_2e)	2022	15%	↓
	Environmental Training	2023	50%	↑
	Digital Maturity Level**	2022	6%	↑
	R&D Expenditures	2023	50%	↑
	Employee Training	2023	25%	↑
	Gender Equality and the Ratio of Women Employees	2022	50%	↔
	Stakeholder Dialogue	2024	25%	↑
	Effective Water Management	2025	50%	↑
	Biodiversity Protection	2022	50%	↑
	Environmental Investment Budget	2022	30%	↑
	Effective Energy Management	2024	25%	↑
	Zero Waste Management	2024	50%	↑

**See Performance Indicators for 2022, 2023, and 2024 performance indicators.*

*** The digital maturity level [10] was calculated using a five-point scoring system within the scope of the Digitalization Roadmap developed in collaboration with a consultancy firm. As of 2022, our current digital maturity level was 3.41, compared to the global average of 3.75. The 2030 target is to reach the global company average, and for 2040, to achieve 3.80 with the aim of becoming an industry leader. The target ratio was determined based on the consultancy firm's Digitalization Roadmap.*

[10] The digital maturity level is a comprehensive indicator that measures an organization's digital transformation capability. It is determined by assessing multiple dimensions such as alignment with digital strategies, technological infrastructure, data management, level of process digitalization, employee competencies, and corporate culture. This level is typically rated from 1 (Initiating) to 5 (Leading) and indicates the organization's position on its digitalization journey.

Our Net Zero Journey

2023

- Establishment of the Corporate Architecture for Sustainability
- Acquisition of GHG Calculation and Verification Management System Certificates (ISO 14064-1:2018 and ISO 14064-3:2019)
- Establishment of a Responsible Supply Chain Management System
- Publishing the First Sustainability Report
- Announcement of 2040 Net Zero Target

2024

- First CDP Disclosure
- Participation in the BIST Sustainability Index
- Reporting Climate Risks
- First ESG Rating from an International Rating Company
- Acquisition of Equal Opportunity Certificate
- 2030 Almost Net Zero Targets

2025

- Publication of the First TSRS-Compliant Integrated Sustainability Report
- Initiation of the ISO 50001 Energy Management System
- Conducting Life Cycle Assessment (LCA) Calculations
- Starting Preparatory Work for Green Bond İssuance
- Disclosing the Biodiversity Management Target Statement
- Development of the Circular Economy Strategy

2026

- Completion of Water Footprint Calculation and Verification in Compliance with ISO 14046 Standard
- Certification of the ISO 27001 Information Security Management System
- Digitalization of Sustainability Processes

2030

- ALMOST NET ZERO

2040

- NET ZERO

*Roadmap Updates

LEED Certification: This target has been removed from the current plan as energy efficiency projects are being pursued through different initiatives.

Water Footprint Calculation: This target has been postponed to 2026 to ensure a comprehensive and integrated calculation process. The decision to postpone was to wait for the completion and launch of the wafer investment, which requires intensive water use in the production process, and to account for the total water usage data in the production processes.

Bloomberg Gender-Equality Index: Due to Bloomberg's decision not to accept new applications, the planned application could not be submitted. We are in the process of exploring alternative indices and evaluation frameworks for monitoring internal gender equality performance.

Interim Emissions Reduction Targets Table

Target*	Base Year	By the 2030 interim target year		By the 2040 target year	
Scope 1 CO_2 Emissions (tCO_2e)	2022	30%	↓	90%	↓
Scope 2 CO_2 Emissions (tCO_2e)	2022	50%	↓	100%	↓
Scope 3 CO_2 Emissions (tCO_2e)	2022	15%	↓	30%	↓

**See Performance Indicators for 2022, 2023, and 2024 performance indicators.*

Effective Stakeholder Communications

As Smart Solar Technologies, we conduct our communication with all stakeholders within the principles of mutual trust, transparency, and continuity. For us, stakeholders are valuable partners who shape our strategic decisions and contribute to our development journey.

Accordingly, we place great importance on maintaining continuous and meaningful communication with a wide stakeholder network, ranging from our customers and employees to our suppliers and investors. As an organization with an internalized feedback culture, we listen to the opinions of our internal and external stakeholders and actively use this data in our decision-making processes.

By conducting regular site visits, meetings, surveys, and one-on-one discussions throughout the year, we measure the expectations of our employees, customers, and suppliers, and turn the insights gained into concrete steps to improve our processes. We maintain a transparent and accessible relationship with our investors, continuing institutional and individual investor communications through regular updates, meetings, and reporting. We can update our activities in line with incoming requests and reassess our strategic priorities.

By determining communication methods and frequencies tailored to the needs and expectations of each stakeholder, we adopt an approach to communication that not only conveys information but also listens and grows together.

Stakeholder Engagement Table

Stakeholder Group	Communication Methods	Frequency of Communication
Suppliers	E-mail, Phone, Online meetings	Regularly
Public Institutions and Organizations	E-mail, Phone, On-site visits	Regularly
Banks and Financial Institutions	E-mail, Phone, Face-to-face meetings, Quarterly analysis meetings	Regularly
Employees	E-mail, Verbal communication, Written petitions, Union representatives, SMS/WhatsApp, Workplace committees	As needed
Universities, Research Institutions, and Consultants	ITU Çekirdek (via Young Energy platform)	As needed
Customers	E-mail, Phone	Regularly / As needed
Executive Board	E-mail, Phone, WhatsApp, Monthly Executive Board meetings	Regularly / As needed
NGOs	E-mail, Phone, Online meetings, Face-to-face meetings	Regularly / As needed
Institutes	ITU Çekirdek (via Young Energy platform)	As needed
Managers & Directors	E-mail, Phone, WhatsApp, Monthly Executive Committee and Executive Board meetings	Regularly / As needed
Independent Board Members	E-mail, Phone, WhatsApp, Monthly Board of Directors meetings, Committee meetings, Online meetings	Regularly / As needed

Materiality Analysis

As Smart Solar Technologies, we conducted a Materiality Analysis to place our sustainability journey on a stronger foundation and to shape our strategic steps in environmental, social, and governance areas.

Through this analysis, we aimed to identify topics that have a significant impact on the company's operations and are considered important by our stakeholders.

In the first step of the analysis, we conducted a comprehensive desk study in light of international standards and sectoral practices. We examined the frameworks of internationally recognized organizations such as GRI, SASB, MSCI, Refinitiv, and EcoVadis, which allowed us to assess how sustainability topics are classified and the methodologies used to address them. We also conducted a detailed analysis of the sustainability initiatives and identified material topics of leading companies in the sector.

In this context, we comparatively examined prominent trends, best practices, and focus areas in the sector. This provided a solid foundation for identifying the most relevant and meaningful topics for our field of activity.

Based on this information, we identified topics that could be strategically important for us. We then focused on the most valuable part of the process: engaging in dialogue with our stakeholders. We carefully identified our internal and external stakeholders, involving a wide range from our board of directors to our employees, from our suppliers to our customers, and from universities to financial institutions. At this stage, our aim was not only to rely on our internal evaluation but also to directly reflect the perspectives of our business partners and other groups we engage with in our analysis.

We conducted a survey covering the sustainability topics we had identified to gather the views of our stakeholders. With the participation of 31 stakeholders, this survey provided valuable insights into the sustainability priorities of different stakeholder groups. Our executives, suppliers, employees, executive board members, and customers actively contributed to the process. Thus, our analysis was not limited to internal evaluations but evolved into a comprehensive structure that also includes the expectations and priorities of our external stakeholders.

After gathering all this feedback, we conducted a comprehensive analysis considering both the impact on the company's operations and its significance to our stakeholders. This assessment was carried out within the framework of the double materiality approach; each topic was analyzed in terms of both its impact on the company's financial and operational sustainability and its social and environmental effects.

Throughout the process, we have paid close attention to complying with international reporting standards. Accordingly, we designed our analysis to be integrated with the GRI (Global Reporting Initiative) standards, structuring it to directly serve as a basis for sustainability reporting.

We scored the identified ESG topics based on environmental, social, and governance dimensions to create our materiality matrix. In the final stage, we categorized the topics into three groups based on their level of importance: material, highly material, and very highly material. This classification enabled us to determine our strategic focus areas and gave a systematic direction to our sustainability efforts.

We had the opportunity to listen more closely to both ourselves and our stakeholders thanks to this analysis. While clarifying which topics are truly material to our company, we have also managed to secure a solid foundation for our sustainability strategy. We now have a clearer understanding of which areas we need to focus on and can plan our next steps with greater determination.

Our Material Topics

Our Material Topics

Priority

1. Corporate Social Responsibility Projects
2. Diversity, Equality, and Inclusion
3. Digitalization and Data Security
4. Customer Satisfaction and Responsible Marketing

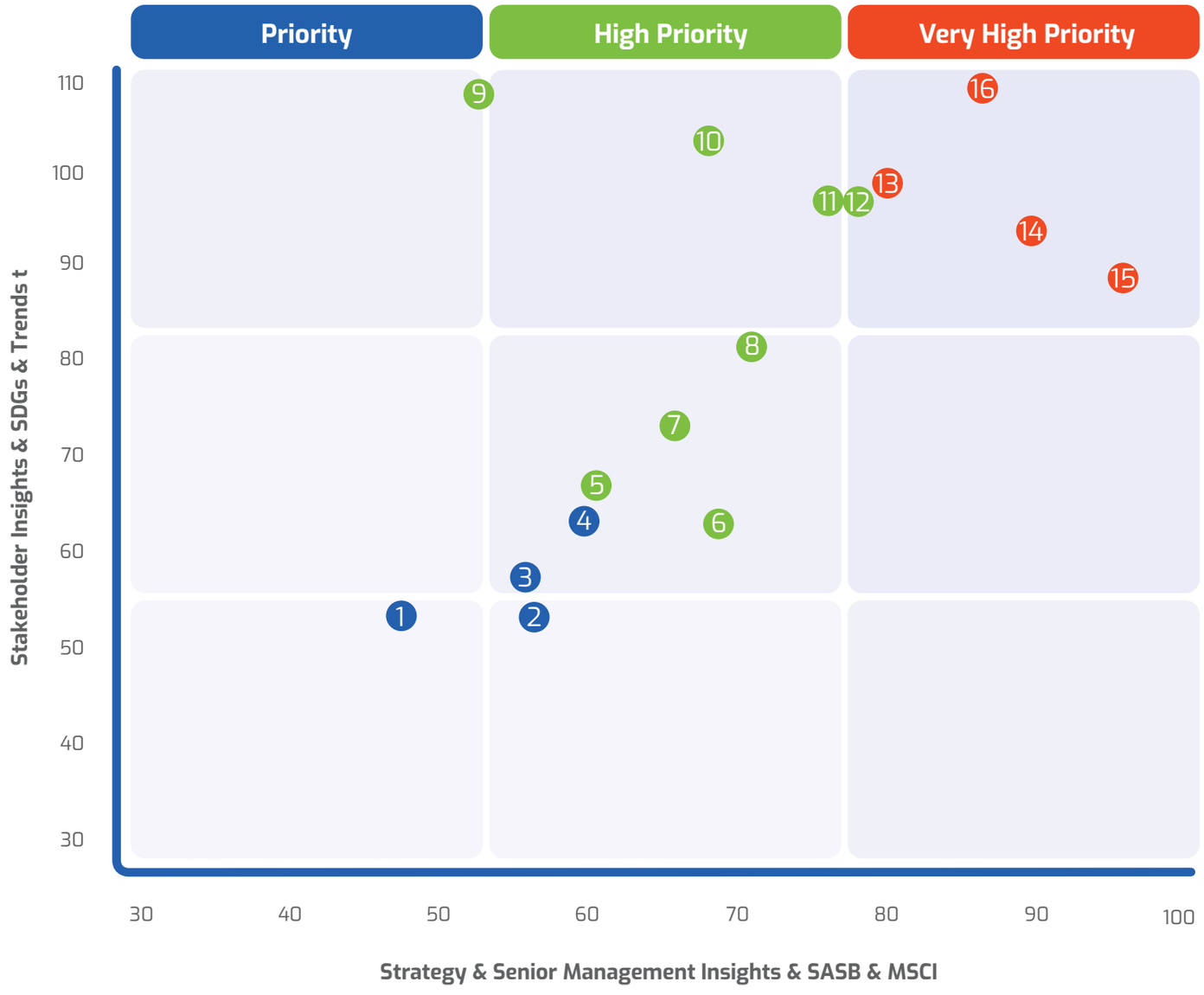
High Priority

5. Career Management and Training
6. Human Rights
7. Economic Performance
8. Employee Rights and Satisfaction
9. Clean Energy Technology R&D and Innovation
10. Circular Economy
11. Water and Wastewater Management
12. Biodiversity Protection and Ecological Impacts

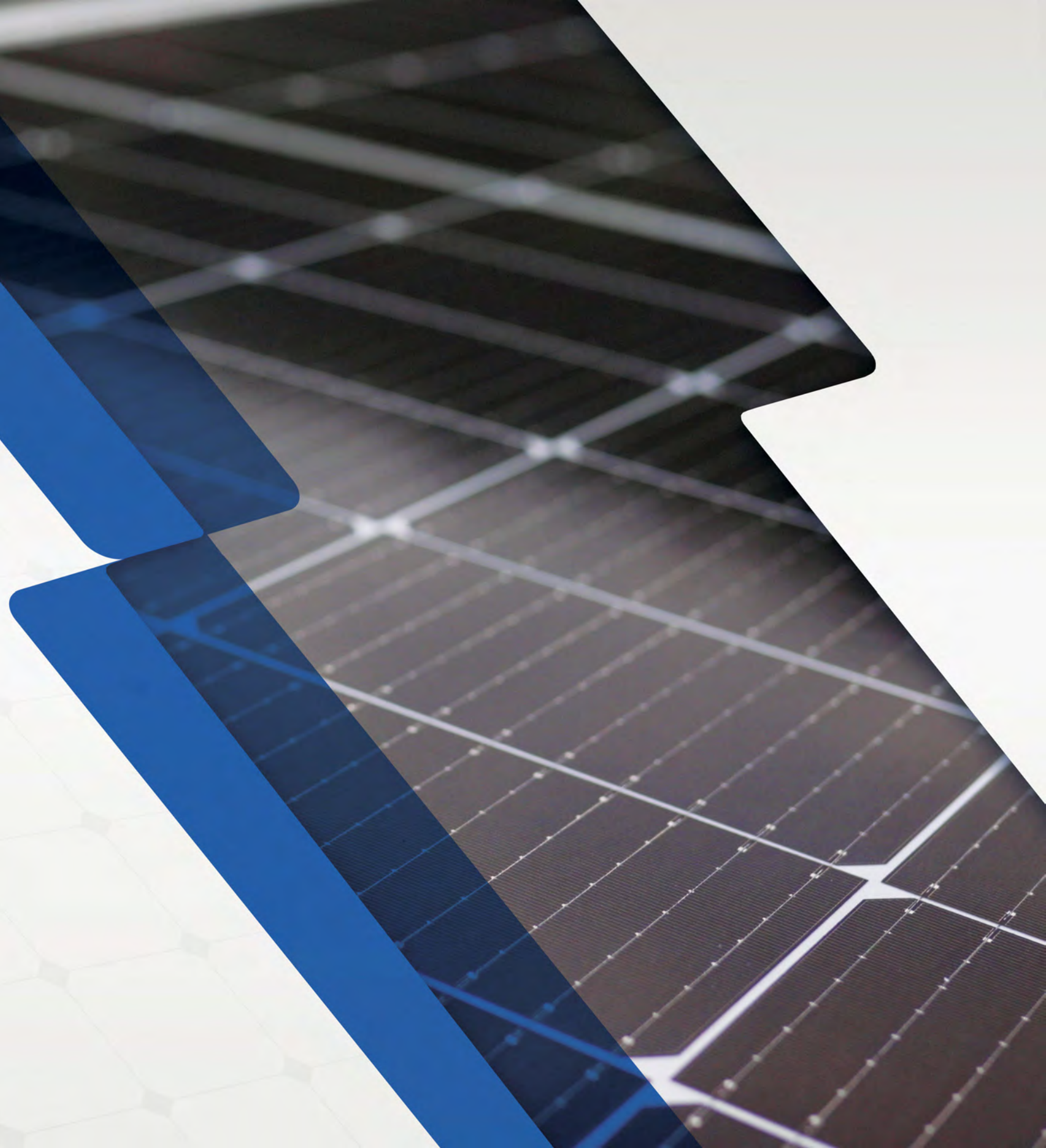
Very High Priority

13. Sustainable Supply Chain Management
14. Business Ethics and Legal Compliance
15. Health and Safety
16. Energy Management and Emissions

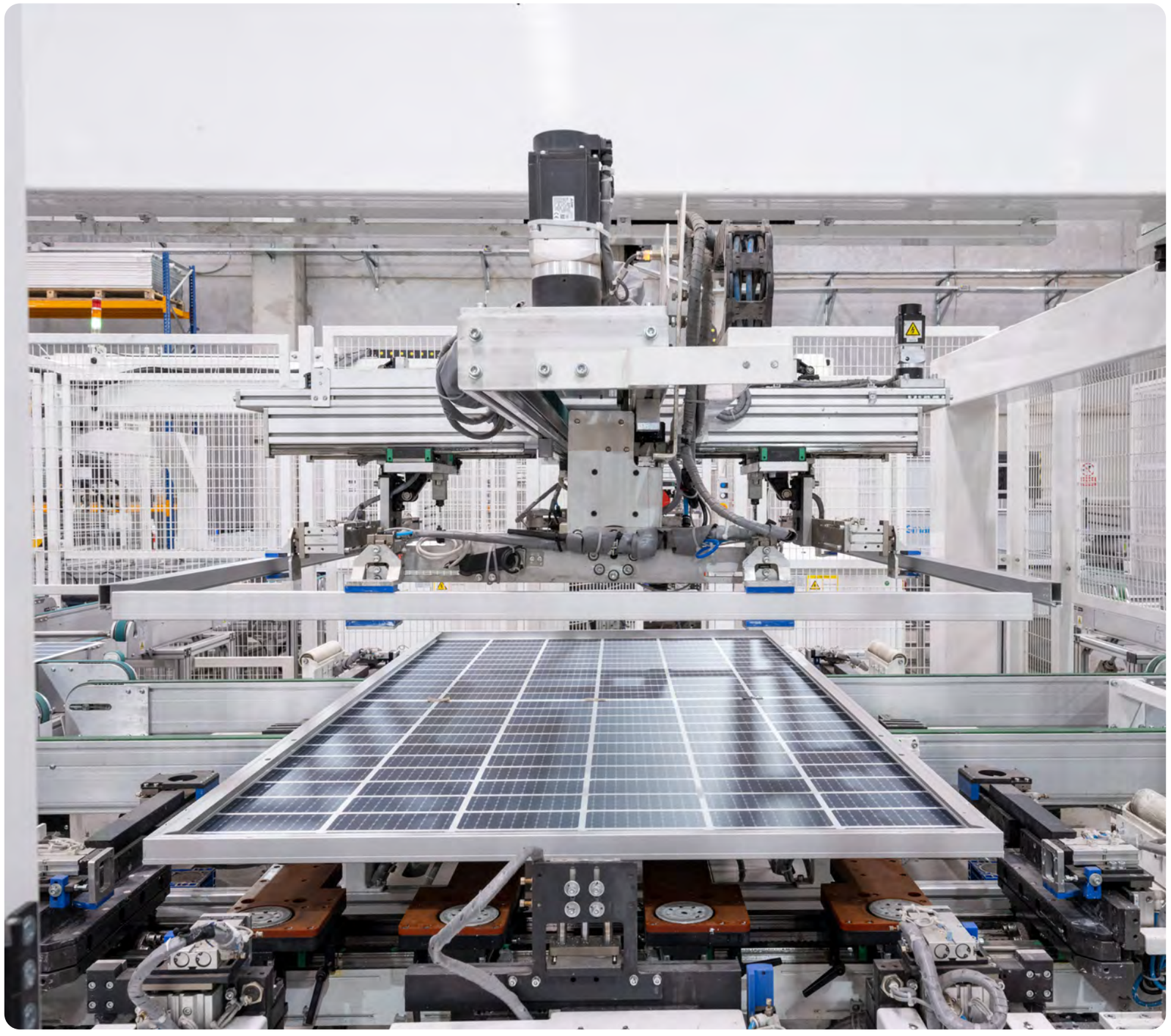
Materiality Matrix



Our Value Creation Model



Our Value Creation Model



Considering the five capital elements in our value creation model (1: Financial, 2: Intellectual-Manufactured, 3: Human, 4: Social, and 5: Natural Capital), we designed our climate risk and opportunity mapping in relation to our entire value chain and activities, as shown below.

Our material topics were linked to our value chain and climate risk and opportunity analyses. In the climate risk and opportunity analysis, 2 risks (27%) were linked to economic performance and to value chain elements and activities under financial capital.

Under natural capital, 4 material topics were addressed. Of the five risks in this category, 2 (18%) are linked to “water and wastewater management,” 1 to “circular economy,” 1 to “energy management and emissions,” and 1 to “biodiversity protection and ecological impacts,” with approximately 46% of our risks concentrated in the natural capital domain.

Two risks (18%) were linked to “sustainable supply chain management” under our social capital. One risk was linked to the “health and safety” material topic under our human capital value chain elements and activities.

Under intellectual-manufactured capital, 1 risk was linked to the “clean energy technology R&D and innovation” material topic.

Relevant Material Topics	Inputs	Outputs
> Economic Performance	· Diversified financing model through IPO proceeds, capital market instruments, and investment incentive certificates · Total investment expenditures reaching 2.71 billion TRY in 2024 · Preparing for green bond issuance as of 2024 · Inclusion in the Borsa Istanbul Sustainability Index · 69% of total procurement sourced from local suppliers · New affiliates and structures launched to establish integrated production facilities in the USA and Europe · Obtaining a 1.1 billion TRY YTAK loan from the Central Bank of the Republic of Türkiye (9.25% interest rate, 10-year maturity) · Investing approximately 500 million USD initiated for YEKA GES-2024 projects · Investing in solar technology production	· Net sales revenue reaching 11.68 billion TRY in 2024 · Distributed economic value amounting to 10.23 billion TRY · Operating profit of 1.36 billion TRY and EBITDA of 1.58 billion TRY in 2024 · Total assets reaching 17.46 billion TRY · Return on equity (ROE) at 30% · Net debt amount reaching 5.9 billion TRY · Paying 2.67 million TRY in taxes and spending 1.47 million TRY on donations and sponsorships in 2024 · Reducing energy import pressure by increasing domestic production capacity
> Digitalization and Data Security > Clean Energy Technology R&D and Innovation	· Commissioning digital modules under the SAP transformation project and preparatory work for digital tracking of sustainability data through central systems · Investing in Cloud Transformation and establishing Tier-4 hybrid cloud infrastructure · Implementing ISO/IEC 27001 Information Security Management Systems · Integrating advanced security systems such as Microsoft 365 MFA and SIEM · Expending 408,234 TRY on R&D in 2024 · Strategic R&D collaborations with GÜNAM, Fraunhofer ISE, and Party A · Planning advanced technology projects for 2025, such as MES systems, QDMS, CRM, and SAP extensions · Integrating image processing, PLC, IoT, WMS, and automation systems into production processes	· Going live with modules such as e-declaration, production management, waste tracking, and IV station integration through the SAP system in 2024 · Achieving process digitalization through digital tools such as Paperzero, Intranet, and Service Desk · Providing KVKK training to 675 people and information security training to 674 people · Experiencing no data breaches, violations, or security issues during 2023–2024 · Commissioning scrap tracking, waste prevention, and autonomous maintenance systems · Obtaining a patent for nano-composite material that increases photovoltaic cell efficiency · Participating in an international consortium under the Clean Energy Transition Partnership (CETP) · Integrating project outputs such as laser cutting and image processing into production
> Human Rights > Health and Safety > Employee Rights and Satisfaction > Diversity, Equity, and Inclusion > Career Management and Training	· Employing a workforce of 1,164 people · Maintaining a structure of 100% permanent employment · Paying 382 million TRY in salaries and fringe benefits to employees · Employing 19 people with disabilities (7 women, 12 men) · Delivering a total of 18,262 hours of employee training · Offering technical and personal development training modules · Conducting performance evaluations for 782 employees · Providing supplementary health insurance · Implementing inclusive social assistance and fringe benefit programs	· Achieving 100% unionization among blue-collar employees (870 people) · Maintaining a 42% share of women employees (491 people) · Providing OHS training to 1,280 employees · Employing all 1,164 employees on a full-time and permanent basis · Recording 0 cases of child labor or forced labor · Receiving the "Respect for People Award" and "Human Rights Respectful Workplace" accreditation · Achieving 78.5% employee engagement, 72.8% overall satisfaction, and 83.6% motivation level
> Business Ethics and Legal Compliance > Customer Satisfaction and Responsible Marketing > Sustainable Supply Chain Management > Corporate Social Responsibility Projects	· Providing 19.5 hours of business ethics training to 25 employees · Delivering business ethics training to 5 contractors and 21 suppliers · Providing social lead auditor training to 25 employees · Establishing an ethics policy, an independent ethics committee, and multi-channel reporting & consultation mechanisms · Achieving a 69% domestic procurement rate · Conducting on-site audits in 2024 at 12 factories of 10 raw material suppliers under the Supplier Code of Conduct ·Operating a sustainable supply chain system (mapping, risk analysis, on-site audit, evaluation) ·Implementing a polysilicon traceability strategy (multi-layer monitoring, independent verification) ·Developing a volunteering infrastructure for social responsibility projects ·Smart Solar Academy, workshops, and mentorship projects	· Experiencing no incidents of unethical behavior or legal non-compliance throughout 2024 · Increasing internal awareness by providing social compliance lead auditor training to 13 employees · Including 100% of suppliers in the Code of Ethical Conduct · Conducting physical audits at 12 factories of 10 suppliers; creating improvement plans in 50% of these audits, with no supplier relationships terminated · Detecting no inputs from the Xinjiang region in the polysilicon supply chain; commissioning the traceability system · Carrying out social solidarity projects and events such as the Istanbul Marathon in partnership with TESYEV · Donating to the Genç İnciler Association and presenting a plaque of appreciation to the Chairman of the Board · Conducting technical training and mentorship programs with high schools and universities under the Smart Solar Academy · Actively managing customer satisfaction surveys and feedback processes, ensuring continuous improvement in customer-focused processes · Achieving full compliance with ethical marketing and data security principles, with no violations occurring in 2024
>Circular Economy >Water and Wastewater Management >Energy Management and Emissions >Biodiversity Conservation and Ecological Impacts	·Developing electric charging stations under the SolarGize project ·Investing in and conducting feasibility studies for green hydrogen production technologies targeting zero carbon ·Launching Life Cycle Assessment (LCA) studies for solar panels with the support of the Izmir Development Agency ·Carrying out a comprehensive waste inventory study at the Aliağa factory ·Directing 1,863,875 kg of waste to the recovery system ·Installing 7 separate filters, 2 ultra-pure water production systems, and 1 pre-treatment facility ·Managing processes in full compliance with wastewater infrastructure at the Gebze and Aliağa facilities ·Consuming a total of 28 million kWh of electricity – all sourced from I-REC certified renewable resources ·Meeting the energy needs of production facilities through 128 MW Bor SPP and 4 MW Kahramanmaraş SPP investments ·Providing 1,345 hours of environmental training to raise climate, waste, and water management awareness among 1,675 employees ·Implementing ESIA, Biodiversity Management Plan, and invasive species control plans at the Niğde Bor SPP site Niğde Bor GES sahasında ·Conducting site arrangements and flora/fauna relocation activities for habitat conservation and restoration ·Targeting compliance with standards such as the European Union WEEE Directive, ISO 14046, and ISO 14064	· Consuming 80,713 m^3 of water in 2024 and discharging it into the OIZ infrastructure at the Aliağa facility after pre-treatment · Recovering a total of 1,863,875 kg of waste, with only 25 kg of waste disposed · Offsetting 100% of the 28,114,745 kWh electricity consumption through I-REC, bringing Scope 2 emissions to zero ·Reducing emissions intensity by 59% compared to 2022, down to 37.38 tCO_2e/MW · Commissioning the Bor SPP project, with a net negative impact potential of 165,169 tCO_2e · Identifying four endemic plant species (Petrosimonia nigdeensis, Limonium tamaricoides, Onopordum davisii, Gypsophila oblanceolata) within the scope of the Niğde Bor SPP project, placing them under protection, and cultivating them for reintroduction into nature · Securing habitats for species such as lark, stork, red kite, and Anatolian ground squirrel · Providing employees with training on eco-friendly practices and species conservation methods, delivered by expert academics · Obtaining the Zero Waste Certificate for the Aliağa facility in 2024 (already in place for Gebze) · Initiating invasive species control activities and defining the monitoring process at the Bor SPP site under the Invasive Alien Species Management Plan · Conducting biodiversity monitoring activities independently with WSP consultancy and regularly reporting the results

Relevant Material Topics	Financial and Economic Value	Supported SDGs
> Economic Performance	· Strengthening investor confidence through an ESG-compliant financial structure · Increasing visibility in the capital markets through the initial public offering (IPO) process and sustainable financing instruments · Achieving alignment between financial success and environmental impact through the net zero target and a climate-friendly revenue model · Contributing to the domestic market by sourcing the majority of supplies and investments from local resources · Reducing external dependency and increasing value-added production capacity through a vertical integration strategy · Channeling domestic production capacity into YEKA projects that contribute to energy independence · Expanding social and economic benefits through investments that support regional development · Strengthening sustainable production infrastructure and ensuring compliance with carbon regulations through environmental investment plans · Increasing foreign currency inflow potential and contributing positively to the trade balance through international investments · Reducing dependence on energy imports and contributing to lowering the current account deficit	**Direct** · SDG 8 – Decent Work and Economic Growth · SDG 9 – Industry, Innovation and Infrastructure · SDG 13 – Climate Action **Indirect** · SDG 7 – Affordable and Clean Energy · SDG 12 – Responsible Consumption and Production
> Digitalization and Data Security > Clean Energy Technology R&D and Innovation	· Ensuring data security, operational efficiency, and transparency across all production facilities through digitalization · Spreading a culture of information security throughout the company and strengthening corporate reputation · Developing more environmentally-friendly, low-carbon footprint, and circular economy-aligned products through R&D infrastructure · Producing commercializable, internationally competitive advanced technology solutions · Increasing added value through high-tech integration that enhances energy efficiency and production quality · Achieving technological infrastructure compliance with regulations such as the EU Green Deal and CBAM	**Direct** · SDG 7 – Affordable and Clean Energy · SDG 9 – Industry, Innovation and Infrastructure · SDG 13 – Climate Action **Indirect** · SDG 8 – Decent Work and Economic Growth · SDG 12 – Responsible Consumption and Production · SKA 16 – Barış, Adalet ve Güçlü Kurumlar
> Human Rights > Health and Safety > Employee Rights and Satisfaction > Diversity, Equity, and Inclusion > Career Management and Training	· A healthy, safe, fair, and inclusive work environment · A human rights-sensitive, zero-tolerance principle against discrimination · Target to increase the female employee ratio to 50% · Target to increase the employment rate of persons with disabilities to 3% · Strengthened labor relations through social dialogue and a participatory union structure · Human-centered sustainable growth through training, career development, and performance systems	**Direct** · SDG 3 – Good Health and Well-Being · SDG 4 – Quality Education · SDG 5 – Gender Equality · SDG 8 – Decent Work and Economic Growth · SDG 10 – Reduced Inequalities **Indirect** · SDG 16 – Peace, Justice and Strong Institutions · SDG 17 – Partnerships for the Goals
> Business Ethics and Legal Compliance > Customer Satisfaction and Responsible Marketing > Sustainable Supply Chain Management > Corporate Social Responsibility Projects	· Strengthening trust among all stakeholders through a corporate culture based on ethical principles, transparency, and accountability · Creating a fair, safe, and participatory work environment through ethical policies, anonymous reporting systems, and an independent ethics committee · Proactively managing ethical risks by enhancing internal audit and corporate ethics capacity · Adopting a responsible production approach across the supply chain and promoting ethical business principles among all actors · Ensuring a zero-tolerance approach to forced labor risks through the implementation of a traceability system in polysilicon supply · Institutionalizing human rights-respecting labor relations through strict monitoring processes against child labor, discrimination, and maltreatment · Contributing to the vocational development of youth through social responsibility projects carried out with universities, vocational schools, and NGOs · Enhancing employee engagement and strengthening corporate citizenship culture through volunteer-based social impact projects · Building trust-based, sustainable customer relationships through ethical marketing, transparent communication, and data privacy principles · Establishing an inclusive business model that strengthens social capital through training, awareness, and participatory processes	**Direct** · SDG 4 – Quality Education · SDG 8 – Decent Work and Economic Growth · SDG 10 – Reduced Inequalities · SDG 12 – Responsible Consumption and Production · SDG 16 – Peace, Justice and Strong Institutions **Indirect** · SDG 5 – Gender Equality · SDG 17 – Partnerships for the Goals
>Circular Economy >Water and Wastewater Management >Energy Management and Emissions >Biodiversity Conservation and Ecological Impacts	· Contributing to the circular economy by recovering 99.99% of waste for economic reuse · Making environmental impacts traceable through transparent and scientific product life cycle analyses · Reducing transportation-related emissions by developing low-carbon mobility solutions through the SolarGize project · Strengthening sector leadership in the transition to zero-carbon production models and playing a strategic role in energy transformation through green hydrogen investments · Offsetting 100% of electricity consumption with I-REC certified renewable energy, thereby achieving zero Scope 2 emissions · Reducing energy costs and creating a net negative impact in carbon offsetting through solar power plant projects · Certifying corporate environmental responsibility in waste management with the Zero Waste Certificate · Increasing resource efficiency through water consumption monitoring and infrastructure investments · Increasing international recognition in climate change mitigation through CDP reporting and ESG ratings · Ensuring ecosystem continuity through habitat protection and fauna/flora restoration efforts · Transitioning to a low-carbon development model through green supply chain and sustainable production investments	**Direct** · SDG 6 – Clean Water and Sanitation · SDG 7 – Affordable and Clean Energy · SDG 12 – Responsible Consumption and Production · SDG 13 – Climate Action · SDG 15 – Life on Land **Indirect** · SDG 9 – Industry, Innovation and Infrastructure · SDG 17 – Partnerships for the Goals

Financial Capital

Economic Performance

2024 was another year of successful strategic growth for Smart Solar Technologies. Throughout the year, investments in integrated production, entry into new markets, export-focused expansion projects, and sustainability-oriented operations significantly enhanced the company's scalability, competitiveness, and financial resilience.

Within this scope, net sales revenues increased from 3.97 billion TRY in 2022 to 8.09 billion TRY in 2023, and to 11.68 billion TRY in 2024, representing a 44% increase.

This growth was driven by high-capacity projects in the domestic market, operational efficiency gains from the launch of the integrated production line, and optimization in supply chain management.

Traceable agro projects[11] launched in the European market have started to provide limited revenue contribution, while investments in the U.S. have not yet reached the revenue-generating stage. These international projects carry strategic importance with their potential to enhance regional revenue diversification in the medium term.

In parallel with net sales, the direct economic value distributed also rose significantly, from 3.56 billion TRY in 2022 to 6.80 billion TRY in 2023, reaching 10.23 billion TRY in 2024. This development reflects the scale of the company in its balance sheet and also demonstrates the extent of the economic contribution provided to all business partners in the supply chain and to society.

[11] ***Traceable agro projects:*** *Refers to photovoltaic system installations in agricultural areas designed to optimize both agricultural production and solar energy generation, supported by monitoring and control infrastructure. In these projects, plant growth, shading ratio, and energy production are monitored simultaneously using sensors and data analytics.*

The table below summarizes Smart Solar Technologies' key economic indicators by year:

Key Financial Indicators (TRY)	2022	2023	2024
Direct Economic Value Generated – Net Sales Revenue	3,973,288,754	8,093,257,032	11,677,588,216
Economic Value Distributed	3,558,013,378	6,797,984,701	10,227,377,249
Operating Profit	477,396,355	1,704,169,168	1,362,398,510
EBITDA	553,729,668	1,865,708,766	1,583,465,021
Operating Expenses	3,376,697,978	6,444,021,671	10,227,377,249
Wages And Benefits Paid to Employees	181,315,400	353,963,030	382,763,381
Taxes Paid	16,798,456	69,512,923	2,667,295
Donations, Sponsorships, And Responsibility Expenditures	3,093,282	14,630,876	1,471,318
Net Debt	124,858,365	3,034,691,560	5,896,775,661
Return On Equity (ROE)	5%	48%	30%
Total Assets	4,294,263,789	10,550,691,463	17,462,319,741
Total Investment Amount	298,853,539	1,495,650,057	2,705,245,407

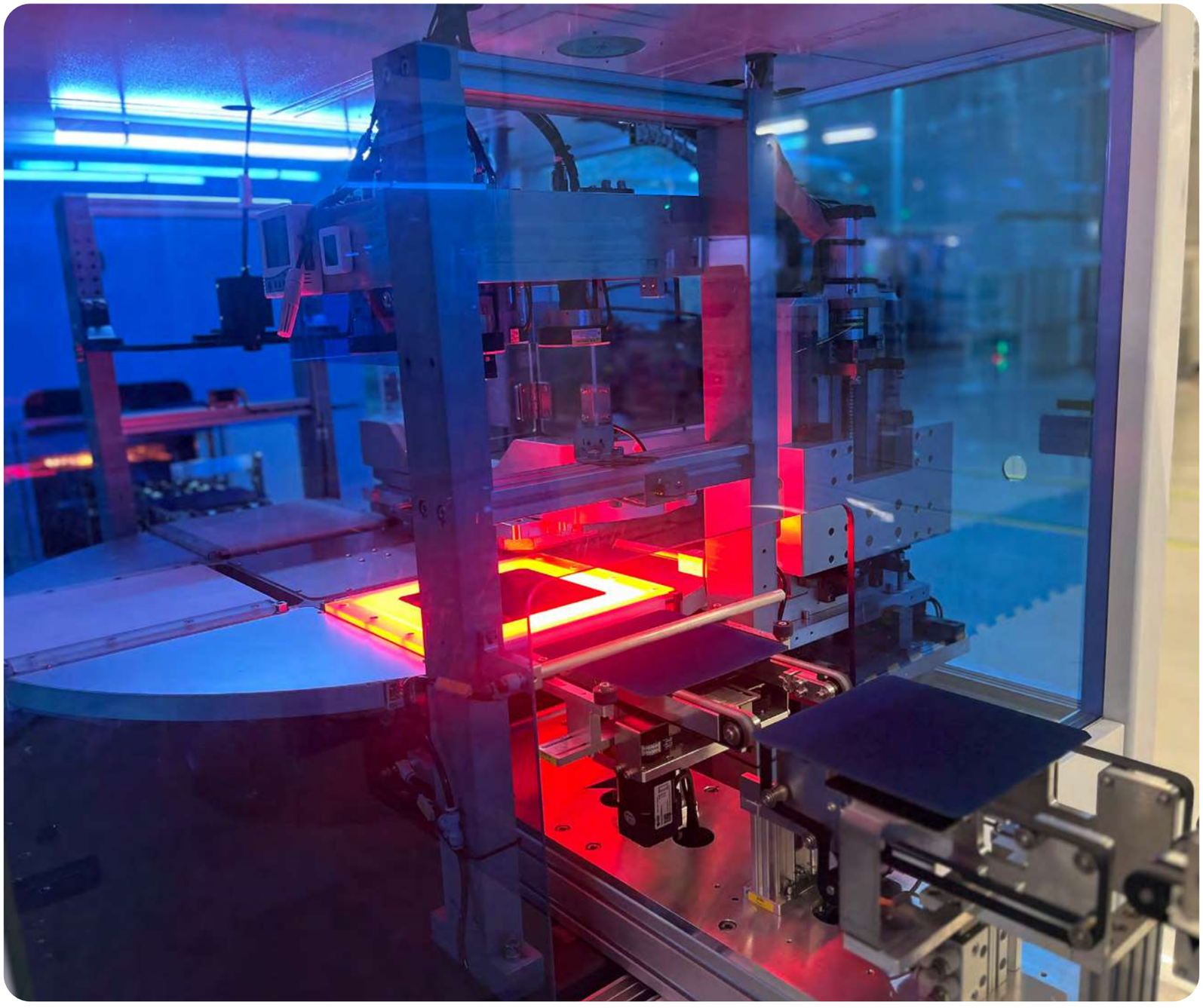
In 2024, operating profit declined compared to the previous year, reaching 1.36 billion TRY, primarily due to increased production costs and the ongoing intensive investment period. However, EBITDA (Earnings Before Interest, Taxes, Depreciation, and Amortization) stood at 1.58 billion TRY in the same year, indicating that operational profitability was strongly maintained.

The increase in total assets is a key indicator reflecting the company's growth dynamics. This figure rose from 4.29 billion TRY in 2022 to 10.55 billion TRY in 2023, and to 17.46 billion TRY by 2024. This remarkable increase mainly reflects the positive impact of investments in manufacturing infrastructure on the balance sheet.

At the center of these investments lies the technological transformation of the manufacturing infrastructure. The Aliağa Integrated Solar Panel and Cell Manufacturing Plant, whose first phase was completed in 2024, stands out as the most concrete outcome of this transformation. This facility was implemented in line with the company's vertical integration strategy and has made significant contributions to its production processes.
The year 2024 also stood out for Smart Solar Technologies' investments aimed at strengthening its presence in electricity generation. In this context, the Niğde Bor project, developed by the company's wholly owned subsidiary Smart GES Üretim A.Ş., was designed with an installed capacity of 128 MWp, and its investment process has commenced. This plant, planned to be start operations in 2025, is of strategic importance not only for increasing the company's electricity generation capacity but also for providing revenue diversification. This investment reinforces Smart Solar Technologies' vision of becoming an integrated energy player.

In addition to electricity generation investments, the manufacturing infrastructure investments completed in 2024 have also made significant contributions to the company's growth strategy. The 800 MW cell production line commissioned within the integrated manufacturing plant in Aliağa has not only reduced dependency on imports but also strategically strengthened Smart Solar Technologies' manufacturing capabilities through high-tech production capacity and know-how transfer. Domestic cell production meets the increasingly important localization criteria in the local market, while serving as a critical factor in enhancing the company's competitiveness against the rising global anti-dumping measures. This technological advancement in cell production processes has improved the cost structure, increased reliability in quality control processes, and directly contributed to financial performance.

Initially launched with PERC (Passivated Emitter and Rear Cell) technology, the cell production process is planned to transition in 2025 to TOPCon (Tunnel Oxide Passivated Contact) technology, which offers high efficiency and is increasingly adopted at an industrial scale. This technological transformation will not only enhance product performance but also offer solutions that contribute to the energy transition, further boosting the company's competitiveness and sustainable manufacturing capabilities.



Finally, to strengthen the scientific foundation of these technological advancements, an R&D collaboration with Fraunhofer ISE has been initiated. This partnership enables the research of next-generation cell technologies and contributes to the development of domestic manufacturing capacity.

Global Expansion and Strategic Increase in Manufacturing Capacity

One of the core components of the company's long-term growth vision, its global expansion strategy, gained momentum in 2024 through concrete investment projects. In this context, the integrated manufacturing plants planned to be established in Europe and the United States are not only steps to expand production volume but also part of the company's aim to enhance competitiveness in international markets and position closer to local markets.

Thanks to these new investments, we will:

- Achieve supply chain flexibility through regional manufacturing infrastructures,
- Reduce logistics costs, and
- Address customer needs in strategic markets more quickly.

This strategic expansion also supports the company's sustainable growth approach and reinforces its role in the global energy transition.

In line with this, the targeted capacities for the planned manufacturing facilities are summarized below:

Solar Panel Production Capacity:

- **1,200 MW Türkiye, Gebze**
- **1,200 MW Türkiye, Aliağa**
- **1,500 MW European Union (2026)**
- **1,500 MW United States (2026)**

Solar Cell Production Capacity:

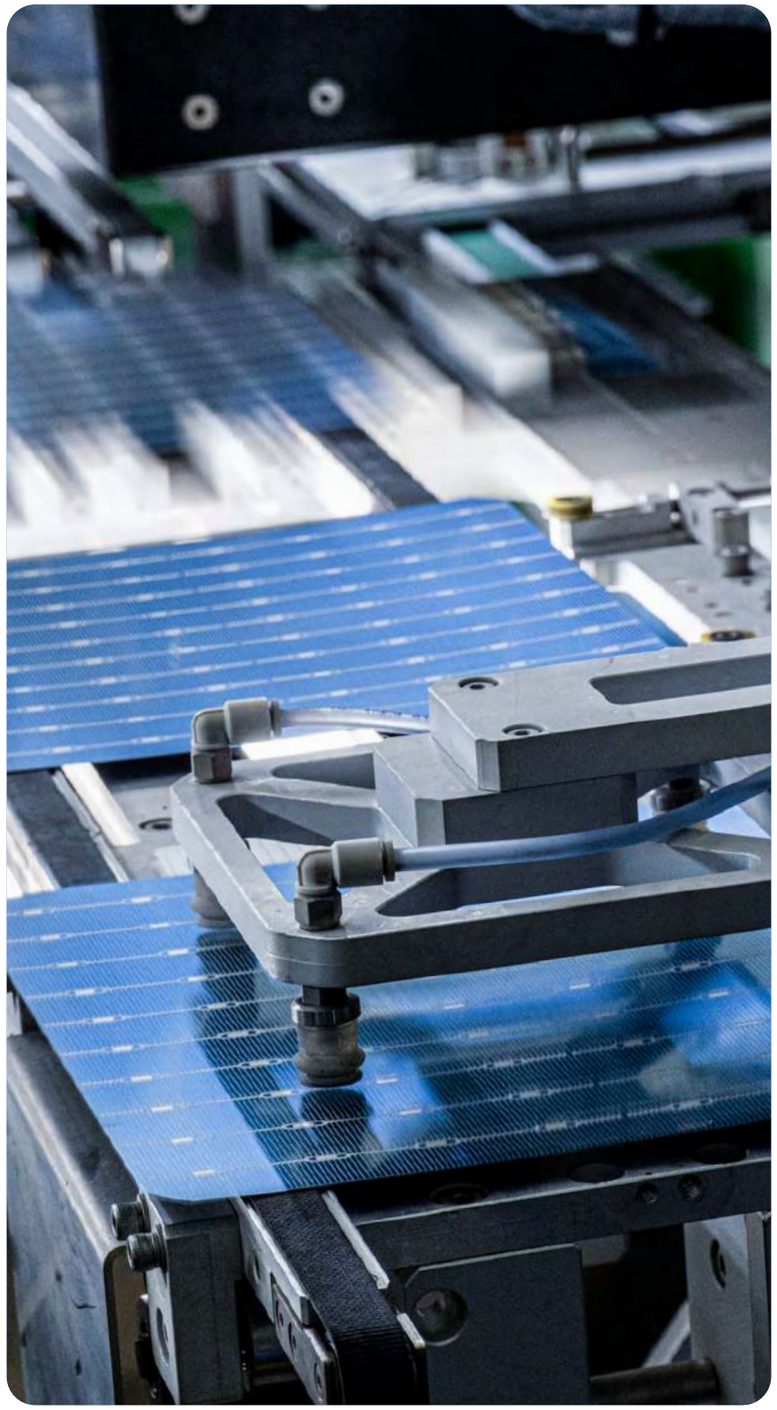
- **1,200 MW Türkiye, Aliağa (2025)**
- **1,500 MW United States (2027)**
- **1,500 MW European Union (2027)**

Wafer Production:

- **1,500 MW Türkiye, Aliağa (2025)**

These investments not only expand manufacturing capacity but also provide strategic benefits such as technology transfer, market access, and cost advantages.

The company efficiently utilizes funds obtained through the IPO process and capital market instruments to finance these investments, while also implementing share buyback programs to preserve and enhance its stock value.



Local Contribution and Social Impact

Industry insight: The expansion of renewable energy technologies, particularly solar-based solutions, strengthens social equity in energy access, fosters socioeconomic development, and contributes to environmental sustainability.

- Ensuring continuity of energy in essential services: Provides uninterrupted and clean energy support in areas such as healthcare, education, and manufacturing.
- Supporting rural development: Improves production and living standards in areas lacking energy infrastructure or with weak infrastructure.
- Creating jobs: Generates new employment opportunities in PV installation, maintenance, logistics, and local manufacturing processes.
- Reducing income pressure: Lowers energy costs, eases household budgets, and improves quality of life.
- Enhancing social inclusion: Facilitates access to energy for women, children, and vulnerable groups.
- Supporting low-carbon development: Reduces emissions and contributes to a transition aligned with climate goals.

Smart Solar Technologies also takes responsibility for contributing to social and economic development in the regions where it operates. In addition to its production facilities, through its local employment policy applied in solar power plant investments and EPC projects, the workforce needs for field projects are primarily met with candidates from the respective regions. This approach contributes to supporting local economies and building sustainable relationships with communities.

In 2024, a total of 295 people were directly employed in projects under the local employment program. Some of these employees were hired permanently at the end of the projects, joining the company's skilled workforce.

PROJECT NAME	PROJECT LOCATION	PROJECT CAPACITY	NUMBER OF PERSONNEL HIRED LOCALLY	LOCAL EMPLOYMENT RATE
Ziraat SPP	Kayseri/Pınarbaşı	63,878.00 kWp	100	25%
Gedik Holding Kaynak SPP	Sakarya/Hendek	4,702.50 kWP	10	17%
Gedik Holding Döküm SPP	Sakarya/Hendek	3,385.80 kWP	10	17%
Işık Plastik SPP	Siirt/Kurtalan	12,032.95 kWp	10	20%
Botaş Nehir Tekstil İşletmeleri A.Ş.	Karaman/Ermenek	12.830,00 kWP	15	25%
Çak Tekstil Arazi SPP	Karaman/Ermenek	12,830.00 kWP	15	25%
Boyteks SPP	Van/Erçek	22,007.70 kWp	20	35%
Boyçelik SPP 1	Van/Erçek	14,950.85 kWp	20	35%
Niğde YEKA-4 BOR-1	Niğde/ Bor	128,066.00 kWp	95	80%

This employment model enables project-based workers to transition into permanent positions over time, with the aim that they will mentor new local hires in future projects, transferring their knowledge and experience. Accordingly, the company contributes not only to production but also to building a skilled green-collar workforce for the sector.

Temporary jobs created during installation and operation phases boost not only individual livelihoods but also regional economies, generating demand in service, accommodation, and logistics sectors throughout the project period.

In addition, installed plants improve energy access, particularly in rural areas, enabling industrial, agricultural, and irrigation activities to be carried out more reliably and efficiently. By using renewable energy sources, these plants reduce dependence on imported fossil fuels, lower the country's energy import bill, and contribute to narrowing the current account deficit.

In certain projects, partnerships with municipalities aim to meet the energy needs of public facilities through solar power, reducing carbon footprints while contributing to public budgets.

As of 2024, the company has developed the production infrastructure, technological capacity, and international investments needed to compete on a global scale. Beyond financial growth, significant achievements have been made in contributing to local development, integrating sustainable energy infrastructure, and generating social impact. These multi-dimensional achievements demonstrate that the company's long-term vision is built on a strong and sustainable foundation.

Field activities for the Niğde Bor project have delivered not only social benefits but also direct and indirect contributions to the regional economy. Of the 95 people employed in the project, 80% were hired directly from the local community, and a total of 13,682 Toolbox training sessions were conducted to enhance workforce skills.

Fire drills, environmental awareness briefings, and inspection activities conducted in collaboration with nearby villages have helped raise community awareness. Activities at the project site have strengthened energy generation and the regional technical infrastructure.

During the project, collaborations with public institutions and municipalities explored opportunities to expand the use of solar energy in public spaces. Such initiatives are expected to contribute to public budgets and help reduce carbon emissions in the long term. Strengthening energy infrastructure can also improve the efficiency of agriculture, irrigation, and industrial activities in rural areas, contributing to regional development. These practices reflect the company's strategy of not only addressing current needs but also aiming to create long-term impact by prioritizing sustainable and balanced development.

Responsible and Sustainable Financing

Smart Solar Technologies remains committed to aligning its financial sustainability objectives with environmental and social responsibility principles. Accordingly, as of 2024, investment decisions are evaluated not solely on the basis of economic returns, but also against sustainability criteria such as climate resilience, low-carbon development goals, and environmental impact management.

A tangible reflection of this integrated approach came on January 1, 2025, when Smart Solar Technologies was included in the Borsa İstanbul Sustainability Index. This inclusion demonstrates that the company's environmental, social, and governance (ESG) performance has been assessed in line with international standards and meets the required competency levels. The evaluation process was carried out under the collaboration between Borsa İstanbul and the London Stock Exchange Group (LSEG).

At the core of the company's financial sustainability framework is the Net Zero Emissions target, which has been embedded into its corporate strategy.

In this context, preparatory work for a green bond issuance has commenced, and environmental and social impact considerations have been adopted as fundamental criteria across all financing models.

One concrete application of these principles is the Niğde Bor Project, which is designed to comply with environmental sustainability criteria and financed through a green loan facility.

The project has been planned to secure alignment not only with national Environmental Impact Assessment (EIA) approval processes, but also with international sustainable finance standards such as the IFC Performance Standards and the Equator Principles.

Thanks to this approach, Smart Solar Technologies aims to operationalize sustainable finance by integrating climate-focused funding with environmentally friendly energy generation.

The impacts of this strategic direction are directly reflected in the company's financial performance. Revenue generated from the company's low-environmental-impact solar panel production processes reached approximately 4 billion TRY in 2022, increased to 8.1 billion TRY in 2023, and climbed to 11.7 billion TRY in 2024.

This steady growth not only reflects financial success but also demonstrates the effectiveness of reducing carbon emissions through sustainable energy generation.

In 2023, approximately 947 thousand TRY was allocated to environmental activities and investments, while in 2024 this amount rose to 2.8 million TRY.

Looking ahead, Smart Solar Technologies is targeting a 30% increase in its environmental investment budget by 2030 compared to 2023 levels. This target aims to further strengthen climate-conscious financial structures and contribute to the fight against climate change.

National Energy Policies and Financial Impacts

The company's investment strategy is directly aligned with national policy frameworks. The 2035 National Energy Plan, prepared in line with Türkiye's 2053 Net Zero Emissions target, forms the foundation of this strategy.

The plan projects Türkiye's installed capacity to reach 189.7 GW by 2035, with the share of renewable energy increasing from its current 53% to 64.7% in the same year. Within this projection, the installed capacity of solar power plants (SPPs) is expected to rise to 52.9 GW.

In this context, strategic opportunities for Smart Solar Technologies include:

- Energy purchase guarantees such as YEKDEM,
- VAT exemptions, tax reductions, and incentives for the use of domestically manufactured equipment,
- Support for SPP projects with integrated storage, and
- Preferential treatment for domestic manufacturers in YEKA tenders.

Contribution to Sustainable Mobility through Solargize Investment

Smart Solar Technologies extends its sustainable finance approach beyond energy generation by investing in new applications with low environmental impact. Under its subsidiary brand Solargize, the company is deploying investments in fast-charging stations integrated with urban mobility systems. Powered by renewable energy sources, this infrastructure both contributes to carbon emission reductions and supports the transition to sustainable transportation.

Through these initiatives, Smart Solar Technologies reduces its environmental footprint with solutions that promote low-carbon technologies, while expanding its sustainable finance strategy into a broader, multi-sectoral sphere of impact.

International Trends and Carbon Pricing

Policy and regulatory measures such as the European Union's Carbon Border Adjustment Mechanism (CBAM), which are set to be implemented in 2026, are expected to provide global competitive advantages for energy companies engaged in climate-friendly production. In this context, Smart Solar Technologies' green manufacturing capabilities and localization strategy not only strengthen its export potential but also enhance access to sustainable finance opportunities.

In addition, Türkiye's progress toward integration into the European electricity grid is creating new opportunities for regional energy exports, further expanding the company's long-term financial sustainability outlook.

Climate Risk and Financial Resilience

Climate change brings both physical and transition risks to the energy technologies sector. Physical risks such as extreme weather events, temperature fluctuations, and droughts can complicate field operations, while transition risks, such as carbon markets, sustainable finance criteria, and regulatory changes, directly impact investment decisions and project planning.

Smart Solar Technologies adopts a climate-focused approach in the technologies it develops and the engineering solutions it provides. Through integrated storage system solutions, the company supports energy supply flexibility, while also developing strategies in the project development phase that account for factors such as the condition of transmission infrastructure to reduce operational risks for investors. With project designs that contribute to grid stability and domestic technologies that reduce carbon emissions, Smart is positioned as a player that creates sustainable value not only environmentally, but also financially.

This holistic approach demonstrates that Smart has built a structure capable of delivering long-term value while remaining resilient to climate risks and responsive to investor expectations.

Intellectual & Manufactured Capital

Digitalization and Data Security

At Smart Solar Technologies, digitalization enables us to create more efficient, secure, and transparent processes across every aspect of our business. We are continuously developing our digital infrastructure to enhance our data-driven decision-making capabilities, strengthen operational processes, and place our responsibilities toward all stakeholders on a stronger foundation.

At the core of this transformation lies information security. We are structuring our digital transformation process in line with the Digitalization Roadmap we developed in collaboration with a consulting firm. In this context, our digital maturity level was measured at 3.41 on a five-point scale in 2022.

Our target is to raise this to at least the global average of 3.75 by 2030 and to reach 3.80 by 2040, reinforcing our position as a digital leader in the sector.

This goal guides our entire digital transformation journey from infrastructure investments and human capital development to system integrations and security policies.

Positioned as one of the most critical building blocks of our digitalization process, information security is a top priority at Smart Solar Technologies, and we prioritize establishing a comprehensive and sustainable framework through company-wide policies. Our Information Security Policy aims to protect the confidentiality, integrity, and availability of all data stored and processed within the company. The policy applies to all employees, and its principles are clearly defined in the Information Security Policy document. All corporate content, such as supplier records, customer information, organizational data, and strategic documents, is considered confidential and may only be accessed by authorized personnel. Measures to protect such information form the foundation of our internal procedures and our corporate responsibility.

We manage information security with the utmost diligence to maintain our corporate reputation, preserve stakeholder trust, and ensure full compliance with the legal framework. In this regard, we operate in full compliance not only with national legislation but also with international regulations.

In line with the European Union General Data Protection Regulation (GDPR) and Türkiye's Personal Data Protection Law (KVKK), we process, store, share, and continue to uphold our responsibilities for personal data even after legal processes are concluded.

We attach great importance to supporting all these processes through employee awareness and training.

In 2024, KVKK training was provided to a total of 675 employees, amounting to 1,350 training hours.

During the same period, our Information Security Awareness Training reached 674 employees, delivering a total of 1,011 training hours, thereby embedding an information security culture at the corporate level.

We implement all necessary technical and administrative measures to prevent potential information security breaches and minimize possible risks. In the event of a breach, rapid and effective measures are activated to protect our employees, customers, and all stakeholders. Where necessary, sanction mechanisms are decisively applied against the individuals or organizations responsible for the incident.

Our commitment to information security goes beyond written policies. We allocate the necessary resources to establish, maintain, and continually improve an Information Security Management System (ISMS) in compliance with the TS ISO/IEC 27001 standard, applying this approach both within the company and in our relationships with business partners.

We regularly evaluate the effectiveness of our system and update it to meet evolving needs. This policy is binding for all employees, regardless of job title or working arrangement. Whether full-time, part-time, contract-based, or outsourced, anyone with access to our information systems is required to comply with these principles. These rules also apply to third-party service providers and their support teams.

In information technology security, we value employee awareness as much as robust infrastructure. Practices such as password security, screen-lock habits, and vigilance against malicious software are integral parts of our corporate culture. With all team members internalizing these measures, a high level of security is maintained across our digital systems.

Data security in customer relations is an area of particular sensitivity. From contracts to financial documents, all customer data is protected against unauthorized access, and all access and sharing are carried out strictly within pre-defined authorization protocols.

Digitalization Projects Implemented in 2024

In our digitalization journey, we are transforming not only processes but also the way we do business. The System Analysis Program Development (SAP) transformation project, initiated to strengthen information security, establish full integration between systems, and ensure uninterrupted business continuity, has been one of the key steps in this approach. As of 2023, many SAP modules were activated within the scope of the project, and a robust digital infrastructure was established across our systems.

Key improvements under the SAP scope included production confirmation programs, packaging material consumption tracking, scrap tracking, definition of new classification criteria, MES integration and IV station connection, inventory count module development, and Jbox set splitting, each enhancing production and planning processes.

In addition, modules such as restructuring of EPC proposal processes, SAP–Solargize integration, e-declaration via SAP, Masraff expense management integration, cell production management module, and fund transfer process integration were also deployed.

Alongside these operational efficiency projects, the Paperzero mobile application and e-signature solutions were introduced for digital document management, and an Intranet Portal was launched to strengthen internal communication processes. The Service Desk application was implemented to enhance efficiency in IT support processes. Additionally, the Microsoft 365 Multi-Factor Authentication (MFA) system was implemented to further strengthen data security.

Transitioning to cloud technologies is also a key part of our digital transformation strategy. Thanks to our partnership with a hybrid cloud provider offering Tier-4 level service, we restructured our end-to-end information technology infrastructure as of May 2022. With our new infrastructure, our systems now operate in a more secure, efficient, and flexible manner.

As part of the Cloud Transformation project, advanced applications such as Security as a Service, SIEM as a Service, Infrastructure as a Service, Monitoring as a Service, and VLAN Segmentation were integrated into our system. These projects significantly strengthened our capabilities, particularly in the areas of data privacy and cybersecurity. The absence of any data loss, breach, customer security incident, or cybersecurity issue throughout 2023 and 2024 stands as a direct and tangible outcome of these investments.

In this context, in the last quarter of 2024, Smart Solar Technologies took another step in cybersecurity by initiating a comprehensive analysis and planning study. The aim of this study is to identify in detail the cybersecurity needs of all locations—including the headquarters, production facilities, and solar power plant sites—and address them systematically in line with senior management approval. The first phase of the study has been completed, clarifying current needs and the actions to be taken. As of 2025, the necessary implementations will be carried out in line with the steps approved by senior management. This new phase will add strategic depth to our existing cybersecurity infrastructure.

On the operational side, we continue to expand the impact of digitalization. With the Warehouse Management System (WMS), our warehouse spaces have become more efficient; picking and placement processes have been optimized according to work orders and material characteristics. As a result, real-time stock tracking has become possible, and accuracy and reliability in our supply chain processes have increased.

Similarly, through the integration of smart technologies such as Programmable Logic Controller (PLC) and Internet of Things (IoT) devices, we are able to collect real-time data from our production lines, reduce error rates, and lower maintenance costs. These technologies enable us to manage capacity in a more controlled and predictable manner.

When all these systems come together, digitalization ceases to be merely a technology investment for us. It becomes a strategic capability that strengthens our organizational resilience with a focus on reliability, sustainability, and efficiency. Therefore, with the aim of building on the gains we achieved in digital transformation throughout 2024, numerous new projects have been planned for 2025. These initiatives focus both on strengthening our digital infrastructure and on making our production and business processes more efficient and traceable.

The main projects planned for 2025 are as follows:

- IT Strategy and Roadmap Study: A strategic roadmap will be developed for corporate architecture, application infrastructure, and cybersecurity.

- Automation and MES System for Production Sites: The transition to an MES system covering all production areas will be initiated.

- SAP S/4 RISE ERP Enhancements: The PM (Plant Maintenance) and QM (Quality Management) modules are planned to be implemented.

- SAP Function Enhancements: New functionalities required in existing modules will be integrated into the system.

- QDMS Implementation: The QDMS system will be deployed for the digital tracking of quality documents and processes.

- CRM System Implementation: A CRM project will be launched to bring customer relationship management into a more integrated structure.

With these projects, we aim to advance our digitalization journey, make our processes more transparent and traceable, and support our production efficiency with next-generation technologies.

Clean Energy Technology R&D and Innovation

We embrace the creation of sustainable and lasting value in the field of renewable energy as our core principle with the responsibility of being a leading actor in the green transition. Accordingly, at the core of our efforts, which aim to be environmentally responsible, use resources efficiently, and leave a more livable world for future generations, lies **green energy technology.**

Our R&D Department, established in 2018, continues to develop creative and high-efficiency solutions by closely following material, design, and system-focused advancements in green energy technologies. In addition to R&D activities, technical contributions from departments such as production, quality, and process support the delivery of environmentally friendly solutions with a low carbon footprint and in line with circular economy principles. With our innovative perspective, we continuously improve our efforts in this area. In line with these practices, building a stronger and more inclusive innovation and R&D infrastructure in sustainable energy technologies is a testament to our commitment to combating climate change.

Strategic R&D Collaborations

We strengthen our R&D approach through strong national and international collaborations, building a multi-dimensional technology ecosystem. The projects we develop are shaped by our sustainability principles and green transition objectives, delivering tangible outputs focused on energy efficiency, environmentally friendly solutions, and technology transfer.

Partnership with Taraf A: As part of our collaboration focused on panel technologies, innovative solutions developed in Taraf A's R&D laboratories are integrated into the production processes at our Gebze facility. Through technical knowledge transfer from equipment manufacturers, our production systems quickly adapt to new technologies.

GÜNAM (Middle East Technical University Solar Energy Research and Application Center): Our consultancy agreement with GÜNAM covers critical areas such as the establishment of the cell factory, equipment selection, personnel training, and strengthening of the R&D infrastructure. In addition, the development of national and international R&D projects is carried out in collaboration with GÜNAM.

Fraunhofer ISE: The consultancy agreement signed with Fraunhofer ISE, Europe's largest solar energy research institute, covers both the technical feasibility studies of our current cell investment and forward-looking advanced cell technology projects.

Ongoing R&D Projects

Born from national and international collaborations, these projects reflect a multi-faceted R&D approach that spans from production processes to advanced material technologies in line with our sustainable energy goals:

Distance-Controlled Nanocomposite Material to Improve Photovoltaic Cell Efficiency (TÜBİTAK – 2023)

Patented in 2023 and successfully completed in 2024, this project has delivered significant improvements in both performance and the production process thanks to a distance-controlled nanocomposite material developed to enhance the efficiency of photovoltaic cells.

This special structure directs sunlight more effectively onto the cell surface, maximizing light absorption while reducing carrier losses, thereby increasing electricity generation efficiency. By designing the developed nanocomposite structure to interact optimally with the cell, higher performance has been achieved at a lower cost compared to conventional PV materials.

Another key outcome of the project is its ease of integration into production processes. The developed material is adaptable not only in laboratory settings but also for industrial-scale production lines. In this respect, the project has the potential to commercialize a technological innovation and enhance the global competitiveness of advanced material technologies developed in our country.

From Wafer to Module: Cost-Effective High-Efficiency Silicon Technologies (CETP – Clean Energy Transition Partnership):

This project is an international R&D collaboration conducted in partnership with Germany (Fraunhofer ISE, Schmid-Group), Ireland (Nines-PV), and Norway (NorSun). As Smart Solar Technologies, we are an active member of the project consortium.

The project aims to create an alternative to the use of high-cost materials and reduce the cost of components used in TOPCon-type solar cell production, thereby lowering the Levelized Cost of Electricity (LCOE). In line with this objective, the development of more cost-effective, high-efficiency silicon technologies is expected to drive a structural transformation that will broaden access to green energy.

Marine Solar Panel Design and Smart Maritime System

This project, aimed at expanding the use of solar energy systems in the maritime sector, seeks to address energy challenges faced by marine vessels. High-strength panels resistant to harsh marine conditions are equipped with next-generation construction systems; the system's electrical and mechanical infrastructure is redesigned, enabling seamless integration into ship systems.

By eliminating fossil fuel-dependent backup energy systems, this project supports sustainability in maritime transportation.

Enhancing Panel Quality through Image Processing in the Production Line

This project is carried out to reduce production defects caused by human or equipment errors, with a particular focus on improving busbar-ribbon soldering and connection quality. Through image processing systems, the panel production process is digitalized, enabling real-time detection of defects and minimizing quality losses. As a result, field durability of the product increases, and panel lifespan is extended.

Next-Generation Organic Solar Cell Donor Material Synthesis

This project, focused on organic photovoltaic technologies, involves the design and synthesis of donor materials compatible with next-generation acceptor groups.

The goal is to develop high-efficiency, stable, non-toxic, and easily manufacturable organic solar cells. The project pioneers alternative material solutions in renewable energy technologies, combining a sustainable chemistry approach with technological innovation.

Laser Cutting Parameters' Impact on Cell/Module Power

This project aims to precisely optimize cutting parameters to reduce micro-cracks and power losses that laser cutting technology can cause in solar cells. This ensures the mechanical strength of the cells is preserved while increasing the precision of production processes.

As Smart Solar Technologies, through both our national collaborations and our joint projects at the European level, we produce solutions that will shape the future of green energy technologies, bringing knowledge, innovation, and environmental awareness under the same roof. With this approach, we go beyond producing technology and continue to contribute to building an eco-friendly way of life.

Albedo-Effect Polymer Film Synthesis

This project aims to enhance light scattering and prevent temperature-related efficiency losses through special polymeric films applied to solar modules.

By leveraging the albedo effect, more sunlight is reflected, reducing thermal stress on the module surface and thereby increasing overall efficiency.

PV-Based, Portable Green Hydrogen and Fuel Cell System

Green hydrogen is an energy carrier with zero carbon emissions, produced from water via electrolysis using entirely renewable energy sources (such as solar and wind).

This project aims to develop portable systems for hydrogen production using solar energy. Designed to reduce greenhouse gas emissions and provide carbon-neutral solutions in areas with limited energy access, these systems can be made portable and scaled to meet different needs. The hybrid use of hydrogen as the energy carrier of the future is supported, making this project critical from both technological and environmental perspectives.

Natural Capital

Circular Economy

At Smart Solar Technologies, we are committed to a system in which resources are used efficiently and waste is transformed into valuable inputs, adopting the circular economy approach as one of the core elements of our sustainability strategy. In line with this vision, we continue to develop multifaceted practices that minimize environmental impacts, retain resources within the system for longer, and enhance operational efficiency.

In this context, we plan to implement Life Cycle Assessment (LCA) processes to evaluate the environmental impacts of our products through a holistic approach. Should our application submitted on December 12, 2024, under the İzmir Development Agency's "Green Transformation in Industry Technical Support Program" be approved for funding in 2025, the first LCA study will be conducted on our solar panels and is expected to be completed within the same year.

The data obtained from these studies are intended to identify improvement opportunities in priority areas such as increasing energy efficiency, reducing carbon emissions, and developing sustainable production processes.

These analyses are expected to allow us to assess the environmental impacts of our production processes from raw material procurement to the end of product life. This will enable us to generate tangible environmental outputs for our production processes, scientifically identify areas for improvement, and develop production models with a lower carbon footprint and higher resource efficiency.

By 2026, we aim to extend the LCA approach to different product groups and integrate our circular economy model into all production processes.

Our circular approach is not limited to product design and manufacturing processes; it is also based on traceability and efficiency in resource use. In this regard, with the integrated production infrastructure being established at our Aliağa facility, we plan to adopt a structure in which panel, cell, and wafer production processes can be managed together. Water efficiency initiatives covering all stages of production aim to make water consumption traceable, measurable, and continuously improvable.

In line with our efforts to prevent waste generation, increase recycling rates, and extend the lifespan of resources within the system, **our İzmir factory qualified for the "Zero Waste Certificate" as of 2024.**

The process is also being effectively maintained at our Gebze facility, which had previously received the zero-waste certificate.

These certificates demonstrate our corporate-level commitment to the zero-waste target across all operations, with details of our practices accessible transparently via our corporate website.

We also implement our circular economy approach as an operational system that delivers measurable environmental and economic outputs. Throughout 2024, recovery activities carried out at our Aliağa and Gebze facilities transformed waste into valuable inputs reintroduced into the system, creating significant impacts on natural resource use, greenhouse gas emissions, and energy consumption.

We maintain our environmental responsibility even at the end of the product life cycle. Although solar panel recycling infrastructure in Türkiye is still an emerging field, we are developing innovative and pioneering solutions in this area.

We implement upcycling practices by repurposing panels that have reached the end of their life or have low efficiency in various projects. In addition, through licensed partners, we ensure the recovery of not only aluminum frames, electronic components, and precious metals such as silver, but also crystalline silicon cells, glass surfaces, copper conductors, encapsulants (EVA), and backsheet polymers.

These efforts not only optimize waste management but also support the integration of circular economy principles into the solar energy sector.

Technical analyses in the literature indicate that approximately 85% to 95% of the materials contained in crystalline silicon photovoltaic panels can be effectively recovered. By leveraging this high recovery potential, we aim to ensure the sustainable management of panel waste.

We design our recycling efforts to meet the future transformation needs of the sector. Although Türkiye does not yet have a dedicated take-back system for solar panels, we are preparing corporate mechanisms that could be activated should such a structure be established.

This approach provides for a flexible and sustainable system design aligned with developments in national legislation as well as regulatory frameworks in our export markets.

In this context, we advance through pilot projects, developing alternative end-of-life scenarios to enable the repurposing of panels with varying service lives. These field-tested practices serve as scalable and viable model examples for the sector, contributing to the development of recycling infrastructure.

In addition, we carry out industrial symbiosis[12] practices to enable recyclable components from decommissioned panels to be repurposed as resources in other industries.

Industrial symbiosis is a partnership model that aims to turn one company's waste into valuable input for another company, providing environmental and economic benefits.

Through this model, we contribute to sustainability goals within our own production and also across the sector.

Our long-term goal is to continually enhance our existing recycling infrastructure to advance the sustainable management of all panel components and auxiliary materials.

Under the integrated model we currently apply, all recyclable components, including silicon cells, glass, metals, electronic parts, and environmentally hazardous materials, are systematically separated and recovered.

Only medical waste, which requires special handling under legislation, is directed to disposal; all other waste streams are included in recycling processes. This comprehensive approach enhances resource efficiency and minimizes our environmental impact, in alignment with our circular economy objectives.

[12] ***Industrial symbiosis*** *is a partnership model that aims to turn one company's waste into valuable input for another company, providing environmental and economic benefits.*

In Türkiye, solar panels are not currently regulated under the Waste Electrical and Electronic Equipment (WEEE) Control Regulation, and no specific legislation exists for this product group. However, we view this not as a barrier, but as a strategic opportunity to help shape the sector's transformation.

Taking the EU's WEEE Directive and other international standards as reference, we aim to lead the establishment of similar systems in our country.

Accordingly, we are developing compliant, flexible, and sustainable recovery systems that take into account both regulatory requirements in our export markets and developments in national legislation.

Waste and Hazardous Materials Management

At Smart Solar Technologies, we design our production processes to minimize environmental impacts, building a sustainability-focused manufacturing model that reduces waste generation.

We shape our waste management approach in line with our Environmental and Climate Change Policy. As clearly stated in this policy, our core objectives are to conserve natural resources, prevent pollution at the source, minimize waste generation, and enable the reuse of resources to return them to the economy.

In all these processes, we follow the obligations defined under the Waste Management Regulation, ensuring the compliant management of both hazardous and non-hazardous waste across our entire production systems and supply chain.

Our holistic approach to waste management covers all stages from the start of production to the post–end-of-life phase of our products. In this context, reducing and effectively managing waste generated in the early (upstream) stages of production is among our strategic priorities. At the same time, we take a proactive approach to downstream processes, namely, the potential environmental impacts arising at the end of our products' life cycles.

In this regard, we aim to implement various initiatives such as assessing upcycling potential, developing pilot-level industrial symbiosis practices, and utilizing waste within the scope of social responsibility projects.

With this approach, we had completed all necessary physical and organizational infrastructure at our facilities by 2024. In 2024, we initiated a comprehensive waste inventory study at our Aliağa and Gebze facilities.

As part of this study, we mapped all sources of waste generation in detail, classified them by type, and recorded them in compliance with environmental regulations. Based on the data obtained, we identified priority areas for improvement and restructured our collection and segregation systems.

We also conducted awareness activities using on-site posters, banners, and screen content to inform our employees. In waste management, our primary goal is not recovery or disposal, but the prevention of waste generation at its source. Therefore, we have redesigned our processes in line with the Waste Management Hierarchy, making prevention, reduction, reuse, and recycling our core strategies.

In this context, Smart Solar Technologies manages the waste generated in its production processes in full compliance with environmental regulations and sustainability principles. We complete our waste declarations regularly and in full, in line with the reporting periods set by the Ministry of Environment, Urbanization and Climate Change.

The recovery codes used throughout the process are also monitored in an integrated manner within this inspection system; waste is first stored in designated areas within the facilities under a temporary waste storage permit, with appropriate physical conditions ensured, then transported to licensed facilities where they undergo recovery operations under the R12 process code.

As of 2024, a total of 1,672,851 tons of non-hazardous waste and 416,284 tons of hazardous waste were recovered under R-coded operations and reintroduced into the economy. This approach ensures not only the collection of waste, but also its repurposing as a resource and conversion into environmental benefit.

Waste Handling	2024
Waste sent to interim storage (kg)	2.190
Recovered (R-coded) non-hazardous waste (tons)	2.418.991
Recovered (R-coded) hazardous waste (tons)	191.024
Disposed (D-coded) hazardous waste (tons)	25
Other hazardous waste sent to interim storage (tons)	2.190

Smart Solar Technologies Waste Management System Implementation Steps:

In line with our sustainability-focused production approach, we have structured our waste management processes within a systematic and compliant framework. The activities carried out within this scope include the following key steps:

1. Current Status Analysis
2. Identification of Waste Types
3. Creating a Coded List of Waste Types with Photographic Documentation
4. Identifying Waste Collection Equipment Requirements and Implementing Them On-Site
5. Waste Labeling and Awareness Activities
6. Preparation of the Waste Management Plan
7. Drafting the Waste Management Procedure, Sub-Instructions, and Forms
8. Establishment of the Zero Waste System, Planning, and Implementation
9. Submission of Waste Declarations
10. Creation of Waste Definitions in SAP
11. Keeping Legally Compliant Records of Waste

In line with our waste management approach, we develop multifaceted projects to minimize environmental harm and return resources to the cycle in the most efficient way possible. In this context;

Contaminated packaging and oily wastewater from compressors, classified as hazardous waste, previously sent directly for disposal, are now directed into recycling processes thanks to technical improvements. In particular, the system established for reusing oily wastewater not only reduces environmental impact but also generates economic benefits.

Prototype studies are being carried out to recover chemical waste generated during the production process through distillation. In this context, trials are being conducted in collaboration with various companies to recover isopropanol (IPA) from waste flux liquid used in production. We are currently working on reusing this alcohol obtained through distillation in production, thereby aiming to reduce both the volume of chemical waste and raw material consumption.

Significant progress has also been achieved in managing special process wastes (such as potting chemicals). Previously, these chemicals were disposed of together with their packaging; now, during the potting process, the chemical is separated from its packaging before curing, and the packaging is decontaminated and sent for recycling. Through licensed facilities, the decontaminated packaging is converted into semi-finished granulated plastic for recycle. As a result, not only has the amount of recyclable material increased, but the volume of hazardous waste requiring incineration has also been reduced.

Other types of waste, such as styrofoam and packaging straps, are collected separately and sent to licensed recycling facilities, contributing to the economy without harming the environment.

We aim to further strengthen our zero-waste practices and improve our waste recycling performance by 50% by 2030 to carry these achievements into the future.

The success of our waste management efforts is made possible not only through the practices and strategies we maintain, but also through the ownership of this process by our employees—one of our most important stakeholders. Therefore, we do not limit our environmental awareness initiatives to the production area alone.

131 Katılım

119 Katılım

Electronic waste and used vegetable oil collection campaigns organized for our employees reinforce on-site awareness efforts. In 2024, we conducted a comprehensive environmental survey to assess our employees' environmental awareness; based on the survey results, we recognized employees who made a difference, encouraging the spread of this awareness. We implement awareness programs to encourage environmentally respectful actions not only in professional life but also in personal life.

In 2023, our track record for environmental training stood at zero hours, but by 2024 we achieved significant progress.

In this context, our in-house training programs reached 1,675 participants over a total of 1,345.5 hours. In addition, external training sessions organized in cooperation with the Chamber of Environmental Engineers provided 60 minutes of awareness training to 126 employees. These training programs were not only about transferring knowledge but also played a crucial role in embedding environmental awareness across the organization.

Environmental training is integrated into the orientation process at our factories, and we raised awareness on topics such as Basic Environmental Training, Chemical Spills, Waste Management, Zero Waste, and Waste Collection through targeted and general training sessions. As a result, environmental training has become a continuous awareness-raising process that extends to the entire organization, rather than specific groups.

Water and Wastewater Management

At Smart Solar Technologies, as clearly stated in our Energy and Resource Efficiency Policy, we are committed to using natural resources efficiently and integrating sustainability into all our processes in order to minimize the environmental impacts of our activities. One of the key pillars of this commitment is water and wastewater management.

How we use water and return it to the environment is as important to our company as the amount consumed in our operations. Aware that water resources are limited and increasingly valuable, our priorities include reducing water consumption, ensuring effective wastewater management, and adopting a continuous improvement approach across all processes.

At Smart Solar Technologies, we manage the sourcing, use, and discharge of water in our operations with a strong sense of environmental responsibility. Water usage and related impacts may vary depending on the type of activities carried out at our facilities. However, our general principle is to monitor water at all facilities, analyze its impacts, and implement methods that enable continuous improvement.

Water Source and Usage:

- At our İzmir Aliağa Facility, water for production and operational needs is sourced from the Aliağa Chemical Specialization and Mixed Organized Industrial Zone (ALOSBİ) network. Process water is used in cell production processes.
- At our Gebze Facility, only panels are produced, and there is no process-related water usage. Water needs here are met from the Gebze Organized Industrial Zone (OIZ) network.
- At both facilities, wastewater is discharged into the infrastructure of the respective organized industrial zones and treated at their central wastewater treatment plants. At our Aliağa facility, wastewater undergoes pre-treatment processes before discharge.
- Discharge processes are carried out in full compliance with current environmental legislation and the standards set by the organized industrial zones.

We take steps each year to further advance our current water supply and wastewater management practices. In recent years, we have made significant investments to increase our production capacity. The Aliağa Cell Facility, commissioned in 2024, significantly increased our production capacity, which in turn led to a noticeable rise in water consumption. Accordingly, our total network water consumption increased from 9,448 m^3 in 2023 to 80,713 m^3 in 2024. This water demand is met through the Aliağa OSB network, while the wastewater generated after production processes is passed through a pre-treatment unit to minimize environmental impacts before being safely discharged into the wastewater infrastructure of the Aliağa Chemical Specialization and Mixed Organized Industrial Zone (ALOSBİ).

As a result of this increase, we recognized the need to take more precise and conscious steps in water management and initiated water inventory studies to manage our water consumption data more effectively. We focused on conducting a detailed analysis of water usage areas to identify improvement opportunities. In addition, with the establishment of the wafer production line in Aliağa, we planned infrastructure works that will allow us to regularly and accurately monitor water consumption data. With this infrastructure, we will be able to monitor not only total consumption but also process-specific water usage rates in detail.

Additionally, thanks to the industrial wastewater treatment plant installed in our production facilities, we aim to ensure that wastewater from production processes is treated safely in compliance with environmental regulations before being released into nature.

In addition to infrastructure and technical investments related to water usage in our facilities, we prioritize an effective management approach. We monitor our water consumption and create improvement plans by prioritizing data-driven management. We make sure to align all efforts with international standards and best practices. In this context, the ISO 14046 Water Footprint standard is a key reference point we aim to achieve. In the medium term, we plan to strengthen our data collection, monitoring, and analysis processes to build a structure in compliance with this standard. This will enable us not only to track how much water is consumed, but also to assess how its environmental impact is managed holistically.

Accordingly, we aim to monitor our current water consumption and to address the water usage and impacts occurring throughout the lifecycle of our products more comprehensively. Through the lifecycle analyses we plan to carry out in the near future, we aim to assess the product-based environmental impacts of water use and identify areas for improvement. To further advance our efficient water management, we intend to start development initiatives for wastewater recovery, rainwater harvesting, and reuse in production processes. Through such practices, we aim both to reduce resource consumption and to minimize the environmental footprint of our facilities.

The scarcity of water resources and the growing water demand in our operational activities make water management not only a sustainability issue for us, but also a matter of strategic risk management. With this awareness, we prioritize:

- Optimizing water consumption,
- Ensuring the safe and effective disposal of wastewater, and
- Integrating new technologies and best practices suited to our processes.

We see water management as a collective responsibility to be embraced by our entire organization. Therefore, we value improving our water-related performance indicators not only with our technical teams but also with all our employees. We plan to conduct awareness-raising training sessions and informative campaigns to transform our water usage habits. Accordingly, we make our sustainability approach an integral part of our corporate culture. In addition, by closely following legal regulations, sectoral standards, and technological developments both at the global and local levels, we keep all our water and wastewater management practices up to date. This ensures that our operations are carried out in line with current and future environmental requirements.

In line with the "Sustainability Disclosure Topics and Metrics" guideline, the mandatory water indicators for the 2024 reporting period are summarized in the table below:

Metric	Description
Total water withdrawn	80,713.44 m^3
Total water consumed; Percentage of each located in High or Extremely High Water Stress areas	89.8%
Description of water management risks and discussion of strategies and practices to mitigate these risks	Due to water stress in Aliağa, wastewater reduction and reuse are targeted. Risk reduction is planned through methods such as rainwater harvesting infrastructure, process water consumption reduction, and treatment systems. ISO 14046 water footprint management studies are planned.

Table 1: TSRS Metrics – Water Management

Energy Management and Emissions

Energy consumption and greenhouse gas emissions are among our strategic priorities for reducing environmental impacts and ensuring business continuity. We view these two areas not separately, but as complementary parts of a whole. We conduct our energy management in full integration with our emission reduction targets, thereby reducing our environmental impact while also improving our operational efficiency and energy security.

In line with this approach, we have made significant investments to meet our increasing energy needs from sustainable sources. Our total electricity consumption, which was 17 million kWh in 2022, reached 28 million kWh as of 2024. This increased consumption is due not only to the growth in production capacity, but also to the commissioning of new locations and processes.
The carbon emissions resulting from electricity consumption in our management and factory buildings have been fully offset through I-REC certificates obtained from renewable energy generation facilities owned by our group companies. Thus, as of 2024, we have eliminated our greenhouse gas emissions from Scope 2 by 2024

To support our energy transition strategy, we are also restructuring our physical infrastructure to align with these goals. In this context, we continued to apply the special architectural approach called "Factory in Factory," which we adopted from the design phase of our Gebze factory, in our integrated production facility in İzmir Aliağa. By providing climate control only for the production areas, we maintained natural ventilation and ambient conditions in the other sections. This has significantly reduced our energy consumption and improved our energy efficiency.

Additionally, we have extended our energy investments into the field of mobility. Under the SolarGize initiative, we are developing practices to supply electricity used in charging stations from renewable sources, with the aim of offsetting this consumption in the future through renewable energy certificates. We aim for continuous improvement in energy management and monitor our performance indicators on a facility basis. We plan to obtain the ISO 50001 Energy Management System certification in 2025 and initiate energy audit studies within this scope.

By investing in generating our own energy, we are directly reducing our impact on emissions.

With our 128 MW solar power plant investment in Niğde Bor, we aim to produce approximately 260 million kWh of clean electricity annually. This energy will be offset against the consumption of our Aliağa Integrated Production Facility, creating a net negative impact of approximately 165,169 tons of CO_2 equivalent[13] per year.

Similarly, to meet the electricity needs of our Gebze Facility, the 4,000 kW solar power plant under construction in Kahramanmaraş will supply all of this facility's electricity from renewable sources, with surplus production fed into the grid to generate additional revenue.

[13] *Calculated according to the Türkiye National Electricity Grid Emission Factor published by the Ministry of Energy and Natural Resources of the Republic of Türkiye, updated in 2024.*

We have been regularly measuring our corporate carbon footprint since 2021. Our 2024 greenhouse gas emission data has been comprehensively calculated and verified in line with our corporate carbon management approach. In this context:

- Scope 1 emissions (direct emissions from our operations) amounted to 845.41 tons of CO_2e.
- Scope 2 emissions (indirect emissions from purchased electricity) amounted to 12,426.72 tons of CO_2e. However, all of these emissions were offset with I-REC certificates from renewable energy plants owned by our group companies, reducing net Scope 2 emissions to zero.
- Scope 3 emissions (emissions from the supply chain, logistics, and other indirect sources) were reported as 58,322.32 tons of CO_2e.

In line with our net zero emissions target, 2022 has been set as the base year, with interim and final targets defined under our greenhouse gas reduction roadmap.

By 2030, we aim to achieve a 30% reduction in Scope 1 emissions, 50% in Scope 2, and 15% in Scope 3.

By 2040, these rates are expected to reach 90% for Scope 1, 100% for Scope 2, and 30% for Scope 3.

For detailed emission reduction targets, please refer to the Interim Emission Reduction Targets Table.

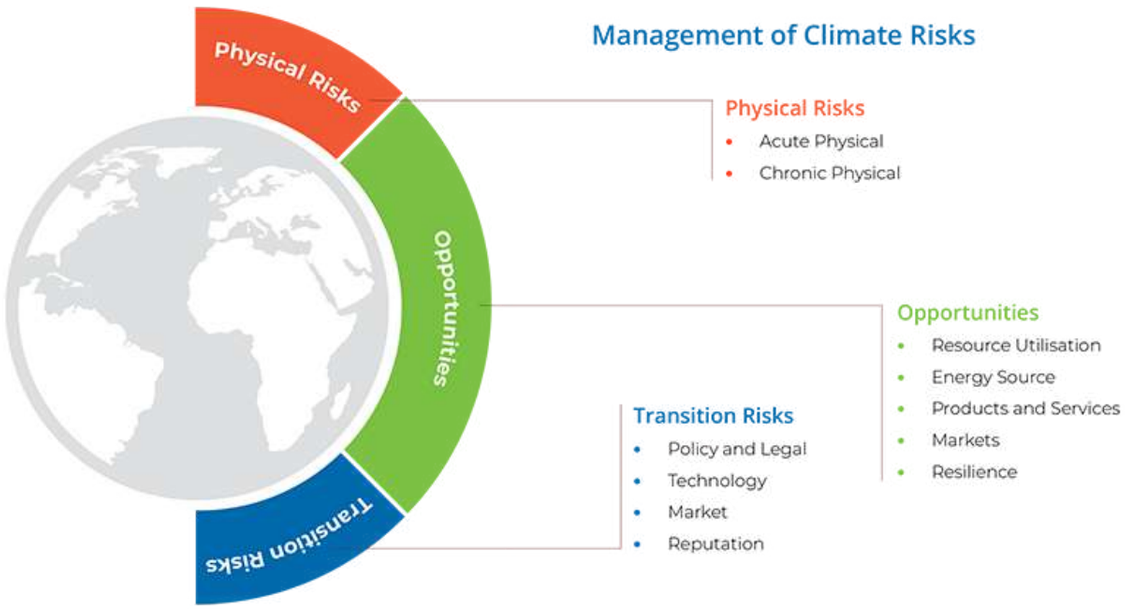
All our emission data is verified by independent organizations in accordance with ISO 14064-3:2019 and reported through a holistic approach covering all facilities under our operational control.

In accordance with the Türkiye Sustainability Reporting Standards (TSRS) "Sustainability Disclosure Topics and Metrics" guidelines, the mandatory climate-energy indicators for the 2024 reporting period are presented below:

Metric	Description
Total energy consumed	59,392.1 GJ
Percentage of grid electricity	100%
Percentage of renewable energy	100% (offset with I-REC)
Percentage of revenue from products containing declarable substances according to (1) IEC 62474	No products subject to declaration under this standard.
Percentage of revenue from eligible products with energy efficiency certification	No energy efficiency certification available.
Revenue from renewable energy and energy efficiency-related products. This accounts for the entire revenue.	₺11,677,588,216
Identification of risks related to the integration of solar energy into the existing energy infrastructure and discussion of efforts to manage these risks **Definition of energy policy-related risks and opportunities and their impact on the integration of solar energy into the existing energy infrastructure**	The integration of solar energy into the current energy infrastructure is considered a critical issue for operational efficiency and the sustainable supply of energy. Factors such as grid capacity limitations, connection permit procedures, and changes in regulations are the main risk areas hindering integration in the sector. Smart Solar Technologies focuses on implementing innovative practices such as integrated production strategies, energy storage systems, smart monitoring technologies, and hybrid power plant solutions to manage these risks. The company also maintains continuous communication with regulatory authorities, prioritizing projects that enhance infrastructure compatibility. Developments in energy policies create new opportunities in areas such as carbon regulations, domestic production incentives, and green finance criteria. Accordingly, the company is developing a production model that is more compatible, flexible and resilient within the existing infrastructure by strengthening both its technological investments and its regulatory compliance capacity.

Table 2: TSRS Metrics – Energy

Combating Climate Change



For our climate-based risk and opportunity analysis, please refer to the "Sustainability-Based Risks and Opportunities" section.

Climate change is not only an environmental threat but also a strategic transformation opportunity for our company. In this area, we aim not only to manage risks but also to be a solution-oriented and impactful actor. We are implementing a comprehensive strategy to transform our operations into a low-carbon, resilient, and climate-adaptive structure.

The foundation of this strategy is built on measurable targets and concrete practices. Solar power plant investments, carbon offsetting with I-REC, green supply chain practices, and next-generation energy solutions are the key pillars of this approach. In particular, we aim to pioneer zero-carbon production models with green hydrogen investments on our agenda.

We believe that transformation is possible not only through technology but also through our human capital. Accordingly, throughout 2024, we delivered a total of 1,345 hours of environmental training, informing 1,675 employees on topics such as climate awareness, energy efficiency, water and waste management, and sustainability.

In addition to these internal awareness initiatives, systematic steps are also being taken to reduce environmental impacts in our supply chain. In this context, in 2025, environmental service providers and material suppliers will be evaluated through the Environmental Supplier Pre-Assessment Form and Environmental Supplier Evaluation Form, in line with the Environmental Compliance Audit Procedure to be prepared under the Supplier Code of Conduct. This process, which also allows for on-site audits when necessary, aims to promote environmentally conscious business practices and reduce environmental risks in our supply chain.

Click here to access our detailed sustainability targets.

Another step we plan to take to reduce our Scope 3 emissions is the development of a Sustainable Business Travel and Transportation Directive aimed at reducing transport-related emissions. This directive will implement practices such as the use of low-emission vehicles, fleet transformation, and carbon footprint reduction measures.

Our performance in carbon management was recognized on an international scale in 2024 when we received a B score in our first-ever CDP Climate Change Reporting; in the same year, we were included in the BIST Sustainability Index, building trust in financial markets.

Additionally, our first-ever ESG score demonstrates that our sustainability performance has been assessed independently and objectively.

In combating climate change, we are not only a company that makes commitments but also one that takes action, invests, and leads transformation, progressing resolutely towards our 2040 Net Zero target.

Biodiversity Protection and Ecological Impacts

At Smart Solar Technologies, we follow a holistic strategy to reduce our environmental impact and protect existing biodiversity across all our areas of operation, in line with our Environmental Policy. In all our projects, we ensure full compliance with national legislation, primarily the Environmental Impact Assessment (EIA) Regulation, and in certain projects, we also comply with international standards such as IFC Performance Standard 6. Accordingly, we aim to increase our biodiversity protection efforts by 50% by 2030.

At every stage of our projects, including planning, construction, operation, and post-operation, we carefully assess environmental impacts and implement all necessary measures. One of the most comprehensive examples of this approach is our Niğde Bor project, where we introduced numerous protective practices as part of the Environmental and Social Impact Assessment (ESIA) and Biodiversity Management Plan (BMP) that we prepared for the 2023–2024 period.

During the pre-construction phase, we conducted flora and fauna surveys on site to identify species in need of protection and relocated them to suitable habitats.

During construction, we analyzed environmental risks such as habitat loss, dust, light, and noise pollution, and implemented mitigation measures such as micro-location planning, temporary area restrictions, personnel training, and habitat connectivity. For the operational phase, the gradual implementation of similar environmental risk mitigation practices is planned to begin in 2025.

Protected Species and Natural Areas

At the Niğde Bor site, we identified several species requiring protection based on analyses conducted with academic experts in their respective fields. These include plant species such as Gypsophila oblanceolata, Limonium tamaricoides, and Onopordum davisii; reptiles such as Testudo graeca; birds such as Aquila nipalensis and Otis tarda; and mammals such as Vormela peregusna, Mesocricetus brandti, and Microtus anatolicus.

To ensure the protection of these species, we revised our site planning, restricted critical areas, installed warning signs, and provided specialized training to our field personnel.

Approximately 74.24% of our project site consists of natural habitats classified as Continental Inland Salt Steppes (EUNIS E6.2). In these areas, we monitor flora and fauna populations through our biodiversity management plan, and we support ecosystem continuity by creating wildlife corridors and designated conservation zones.

Through the monitoring activities we carried out throughout 2024, we achieved the targeted 25% improvement in vegetation cover. This improvement contributed both to the revitalization of the habitat and to the continued movement of fauna species within the site. Simultaneously, we launched habitat rehabilitation practices to support the spread of native species.

As of September 2024, under the Invasive Alien Species Management Plan (IASMP) we implemented, we developed targeted control strategies against invasive species, particularly Xanthium spinosum.

All these efforts were carried out in collaboration with academic experts, and the related processes were monitored and reported by an independent consulting firm.

Our Approach to the Mitigation Hierarchy

In managing environmental impacts, we base our approach on the Mitigation Hierarchy in line with IFC Performance Standard 6. We integrate this approach into the entire life cycle of our projects, starting from the planning phase. Our practices are structured under four main categories:

- **Avoidance:** We aim to prevent impacts from occurring in the first place. These efforts remain active on site.
- **Minimization:** We reduce risks through measures such as micro-location planning, employee training, and temporary area restrictions.
- **Restoration:** We continue habitat restoration efforts to help affected areas regain their natural structure.
- **Offsetting:** Based on assessments conducted to date, the prevention, minimization, and restoration measures implemented in our project have been deemed sufficient, and no offsetting actions are currently required.

We implement this approach systematically as part of the Biodiversity Management Plan (BMP) in relevant projects initiated as of 2024.

All actions outlined in the plan are progressing on schedule, and our efforts to minimize impacts and enhance positive outcomes for biodiversity continue without interruption.

Community Engagement and Social Responsibility

We view biodiversity protection as part of environmental sustainability and an integral aspect of our social responsibility. Accordingly, in every area where we operate, we focus on maintaining continuous communication with local communities and ensuring their active participation in the process. We value understanding the needs of people living in project areas, generating social benefit, and developing sustainable models of engagement.

Our practices at the Niğde Bor site are among the strongest examples of this approach. In the neighboring villages of Emen, Seslikaya, and Badak, we carried out numerous activities that both supported infrastructure and strengthened social solidarity. In the village of Emen, roads were watered to prevent dust formation, a path was opened to ease access to farmland, and a foundation ramp was constructed for the new water reservoir. Following a breakdown in the water network, excavation and backfilling work was conducted, and technical support was provided. In addition, speed limit signs were installed at village entrances to ensure community safety.

In the village of Badak, due to the relocation of the water source, a 400-meter canal was excavated, and water pipes were renewed. In addition to infrastructure, social support was also treated as an important component. In all three villages, regular fuel assistance was provided to vulnerable groups, and in 2024, in-kind support (grocery cards) was distributed to eight households in villages within the affected area. In particular, to address drought caused by climatic conditions in Seslikaya, wells

were drilled in fields belonging to four households to support agricultural sustainability. Additionally, at the request of the local representative in Seslikaya, maintenance and repair work was carried out on the imam's house, the mosque, and the ablution area; an air conditioner was installed in the mosque, and the local representative's office was repainted.

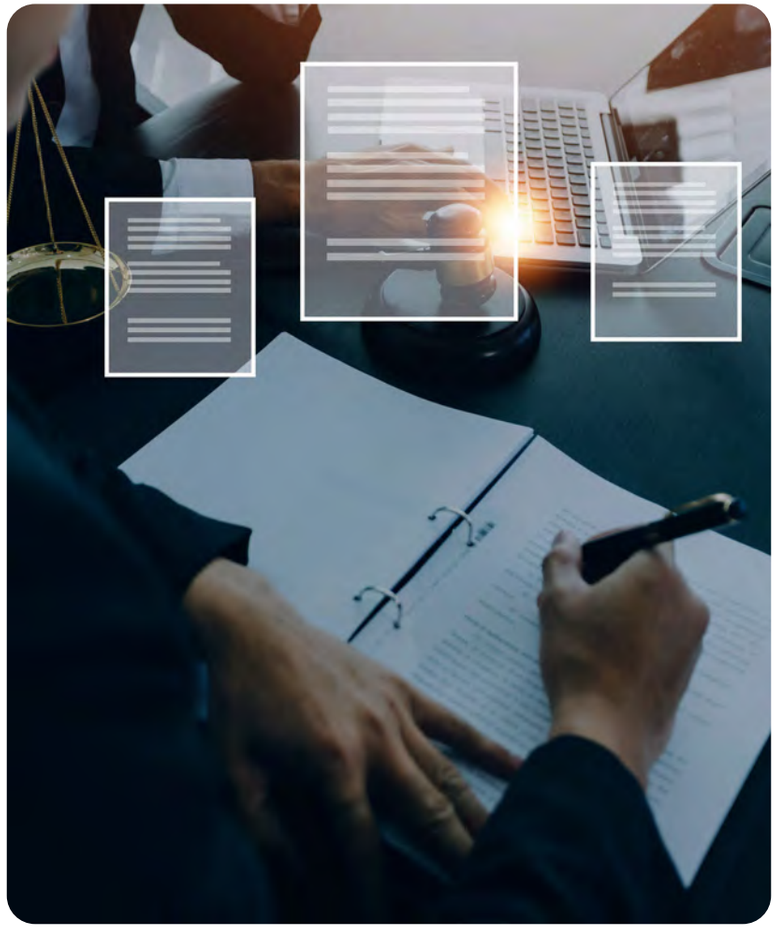
Social engagement meetings held with women have enabled inclusive community participation. During these meetings, women directly shared their views and concerns about the project; feedback was reviewed, and concrete actions were planned. To ensure transparent information sharing at every stage of the project, information boxes were installed in the villages of Emen, Seslikaya, and Badak. These boxes made it easier for the public to access up-to-date project information.

In addition to these efforts, the Grievance Redress Mechanism (GRM) that we established provided a formal platform for direct communication with the public. Throughout 2024, a total of 39 submissions were received from the three villages, 99% of which were resolved within 15 business days at the latest. The majority of requests came from Emen and Seslikaya, while GRM boxes were physically installed in each village, ensuring the traceability of the process with care.

In addition, to enable a comprehensive assessment of social impacts, monthly cumulative impact assessment meetings were held with Niğde Bor Municipality, project operators, and local representatives. Through these meetings, site-wide impacts were addressed through collective dialogue, and coordinated solutions were developed. All these practices strengthened the social license and also helped establish a sustainable relationship of trust with the local community.

Legal Compliance and Impact Assessment Processes

We do not initiate any of our projects without full compliance with the applicable environmental legislation and without securing the required "EIA Positive" or "EIA Not Required" decisions. For our Aliağa and Niğde Bor investments, we completed the ESIA processes in accordance with national and international standards. In these processes, potential environmental and social impacts were comprehensively assessed using scientific methods and industry-recognized analytical tools. Various geographic and environmental data sources were used to identify the environmental sensitivities of the project areas. The findings were used to support official reporting and served as informative inputs for decision-making processes.



Human Capital

Human Rights

We operate with the goal of becoming a company preferred by globally minded, highly engaged, creative, and productive employees. We believe that sustainable corporate success is only possible in a work environment where employees' fundamental rights and freedoms are safeguarded. Guided by our "Your Energy, Our Energy" approach, we conduct all our processes, including recruitment, career development, promotions, work-life balance, compensation, and fringe benefits, in line with our principle of **"Respect for People, Society, Nature, and the Environment."** In this context, we aim to create a work environment for all employees that actively combats discrimination, fully respects human rights, and is grounded in gender equality.

This approach covers our headquarters and our affiliates, production facilities, and field operations. Our principle of inclusivity applies to all employees, whether permanent, contract-based, or subcontracted. Building a corporate culture that respects the dignity and rights of every individual is at the core of our human resources strategy.

In line with our corporate governance approach, we are committed to ensuring that our human resources activities are transparent and accountable to all stakeholders. We prioritize an analytical approach across all processes and maintain concrete practices based on high standards. We continuously review and update our human resources processes in line with our sustainability vision, which centers on human dignity. As a result, we are developing a framework that can respond quickly and effectively to changing conditions and employee needs.

Our Human Resources Policy has been developed in full compliance with the core conventions and agreements adopted by the United Nations International Labour Organization (ILO). These conventions cover universal principles such as labor rights, worker safety, non-discrimination, the prevention of child labor, and the prohibition of forced labor. In addition, all workforce-related legal obligations are met in full compliance with national regulations.

Furthermore, all legal obligations relating to the workforce are fulfilled in accordance with national legal regulations. We structure our corporate operations in compliance with both national laws and international human rights standards in areas such as employee rights, occupational health and safety, freedom of association, and equal opportunity. As of 2024, we have continued our operations without encountering any cases of non-compliance related to human rights, legal obligations, or business ethics.

We demonstrate our commitment to human rights principles through concrete practices. In 2023, following an audit conducted by the Organization for the Respect of Human Rights at our Gebze facility, we were awarded the "Human Rights-Respecting Workplace" accreditation. This significant achievement marked institutional recognition of our efforts to create a fair, equitable, and safe working environment that respects employee rights.

At the same time, the "Respect for People Award," which we received consecutively in 2022, 2023, and most recently in 2024 from Kariyer.net, reflects our commitment to employee satisfaction and ethical management, earning recognition from external stakeholders. In addition to our efforts recognized through awards and accreditations, we officially declared our commitment to international standards in 2023 by signing the United Nations Global Compact, covering key areas such as human rights, labor standards, the environment, and anti-corruption.

Consequently, we embraced an approach that respects human rights within our organization and also strengthened our commitment to ethical values and universal responsibilities at the international level.

Child Labor and Forced Labor

At Smart Solar Technologies, we define success through technological advancements and a workplace culture shaped by respect for human dignity. We maintain an uncompromising stance against child labor, forced labor, and all practices that undermine human dignity, operating with a zero-tolerance policy.

We believe that a truly sustainable future is only possible through a system that respects not just the environment, but also people. We enact our zero-tolerance principle through concrete measures.

In particular, we adopt a meticulous approach during recruitment processes to eliminate such risks from the outset. We carefully verify candidates' ages and strictly prohibit the employment of individuals below the legal working age.

This sensitivity is not limited to our own operations; it also extends across our entire supply chain. We work to ensure that our suppliers assume full ethical responsibility and regularly conduct audits, risk assessments, and compliance checks within this scope.

We adopt a particularly careful and proactive approach regarding certain raw materials that carry high risks on a global scale.

We are aware of regions around the world associated with human rights violations in the supply of polysilicon, a key raw material for our sector. International organizations and academic studies identify China's Xinjiang Uyghur Autonomous Region as an area where serious ethical violations occur, such as child labor and forced labor. At Smart Solar Technologies, we clearly demonstrate, through verifiable traceability reports prepared in line with our principle of transparency, that we do not source any materials from this region.

Our respect for human rights is not limited to external sourcing; we also adopt this principle as a core value in our internal practices. We recognize the right of employees to work of their own free will as an integral part of universal human rights, and we ensure that this right is protected. Practices such as confiscating employees' official documents, wages, or personal belongings are strictly prohibited under all circumstances within our organization.

Overtime is based on voluntary participation and is scheduled with consideration for our employees' work-life balance. This approach is not limited to our own organization; we also continue working to ensure that the same human rights standards are adopted across our entire supply chain. Our contracts with suppliers include explicit clauses prohibiting forced labor, and we monitor the implementation of these provisions through regular on-site audits.

To date, none of the audits we have conducted have identified any cases of child labor or forced labor. This demonstrates the effectiveness of our current policies and control mechanisms and shows that our ethics-based corporate approach has been effectively adopted across our supply chain and operational practices.

In the event that any non-compliance is detected in our supply chain, we plan to maintain communication with the relevant suppliers to investigate the root cause and ensure corrective actions are taken, and if necessary, to terminate our business relationship with those firms.

Indicator	Target	2024
Rate of Detected Child Labor	0%	0%
Cases of Forced/Compulsory Labor	0 cases	0 cases

For our company, this table does not just reflect a one-time success but a goal that must be continuously maintained and improved.

Our goal is to maintain this rate at 0% in 2024 and in the coming years and to continue setting an example with a fair, sustainable business model that respects human rights in every area where we operate.

Social Dialogue

Our top priorities include creating a work environment where everyone we work with can express themselves freely and contribute to decision-making processes. In this context, we promote social dialogue and integrate it into our corporate culture. From employee representation to the protection of union rights and the effective functioning of collective bargaining processes, we act together to build a fair work environment that respects human rights at every step.

We respect our employees' rights to join a union, participate in union activities, and engage in collective bargaining. We provide the necessary environment for these rights to be exercised freely, and we guarantee that no employee will face discrimination or pressure based on their union affiliation. In line with our commitment to non-interference in union organization, we strive to create an inclusive and transparent work environment where employees can express themselves freely.

As a concrete reflection of this approach, in 2023 we successfully signed the new Collective Bargaining Agreement (CBA) following constructive negotiations with employee representatives and union officials. To ensure the process advanced in a healthy, transparent, and inclusive manner, our Chair of the Board and Board members participated directly in the negotiations. This involvement clearly demonstrates the importance we place on social dialogue and the senior management's commitment to employee rights.The agreement includes key provisions aimed at strengthening employee rights, maintaining wage balance, and enhancing social benefits.

In 2023, the number of unionized blue-collar employees was 857, and by 2024, this figure had risen to 870, reaching full participation. As a result, the union membership rate among blue-collar employees has reached 100%.

In addition, a total of 8 union representatives, 4 at our Gebze facility and 4 at our Aliağa facility, serve to represent employees' union rights and demands, strengthening communication between management and staff.

Our union organization structure varies depending on the location of our operations. At our Gebze facility, we work with Birleşik Metal-İş (United Metalworkers Union), while Tes-İş (Türkiye Energy, Water and Gas Workers Union) is the authorized union at our Aliağa facility. In both locations, union activities are conducted effectively in line with the principles of workplace harmony and sustainable social dialogue.

Indicator	2023	2024
Rate of Union Participation (%)*	98%	100%

**This figure represents the ratio of unionized blue-collar employees to the total number of blue-collar employees at our company. It is monitored to ensure that union rights can be freely exercised.*

To enhance the effectiveness and inclusiveness of the process, a total of 9 hours of union awareness and rights training was organized for our employees by the unions operating within our company. These training sessions have strengthened our employees' awareness of their union rights.

At Smart Solar Technologies, we value building a corporate culture that is inclusive, participatory, and based on open communication with all our employees. In this context, we hold regular meetings with employee representatives and directly listen to their views and suggestions regarding the improvement of working conditions. We treat this feedback as a key reference point that informs our strategic decision-making processes.

Throughout 2024, we held a total of 45 meetings with our branch representatives and union representatives at our factories. In this process, we established a strong foundation for communication based on mutual understanding, transparency, and constructive collaboration, integrating union relations into our corporate culture and surpassing the legal framework. We aim to further strengthen social dialogue by increasing the frequency of our meetings with the union.

We view our employees as contributors who add value to our organization and as active stakeholders in our development process. For this reason, one of our priorities is to establish inclusive communication channels across the organization that enable employees to express their voices more effectively and contribute to decision-making processes in a sustainable manner.

Health and Safety

At Smart Solar Technologies, we see it as a core responsibility to deliver high-tech solutions across every field we operate in and to create meaningful value for people and for life itself. Following this approach, we view occupational health and safety (OHS) as one of the most fundamental strategic priorities of our corporate culture.

We see protecting the health and safety of all our stakeholders, especially our employees, as an integral part of our sustainable success objective. That's why we are reshaping our business processes through an OHS lens, aiming to establish a safe working environment at every point without exception through preventive, awareness-raising, and participatory practices.

One of the most significant steps in institutionalizing our OHS approach was the adoption of our Occupational Health and Safety Policy, which came into effect in 2022 following a decision by our Board of Directors. In line with this policy, we carry out our operations in compliance with Türkiye's Occupational Health and Safety Law No. 6331 and the ISO 45001 Occupational Health and Safety Management System standard.

The core aim of our policy is to protect all our stakeholders, including employees, subcontractors, suppliers, visitors, local communities, and off-site personnel, through a comprehensive safety approach, and to advance toward our zero-accident target.

To enhance the effectiveness of our business processes, we carry out our management activities under the guidance of our Occupational Safety Specialists and Workplace Physician. At the same time, we build a multidisciplinary structure by ensuring that key departments such as Production, Maintenance, Planning, Environment, Administrative Affairs, and Human Resources contribute directly to this process. Accordingly, we ensure that OHS awareness extends beyond certain departments and becomes embedded across the entire organization.

To maintain the continuity and effectiveness of our OHS practices, we conduct both scheduled and unscheduled drills at regular intervals. These efforts strengthen the dynamic structure of the system and also increase our employees' level of preparedness for emergencies. By turning safe working practices into institutional reflexes, we make occupational safety an inherent part of our operational processes.

At the same time, we take preventive measures against common musculoskeletal disorders and workplace accidents (such as cuts, impacts, sprains, falls, etc.) experienced by both internal and external personnel, by considering physical strain and ergonomic risks. We are reorganizing our workstations based on ergonomic principles and supporting this process with awareness training for our employees.

We do not limit our occupational health and safety approach to the boundaries of our facilities; we address the safety of the surrounding environment and local communities with the same sense of responsibility. As part of our Community Health and Safety efforts, we developed a Traffic Management Plan to manage vehicle density and prevent potential adverse situations.

Speed limit signs were installed in residential areas near the project site, speed bumps were constructed, and personnel were assigned to ensure road safety during periods of heavy transportation. In addition, regular announcements are made to inform local communities in advance about vehicle traffic in the area.

With this multi-faceted approach, we believe that workplace and employee safety is a cornerstone of our corporate culture. We shape every step we take in the field of OHS with environmental sensitivity, social responsibility, and a human-centered perspective, and we view the health of everyone we work with as the foundation of our journey toward sustainable success as we grow our business safely.

Developing an OHS Culture

Occupational health and safety training begins at onboarding and is reinforced through on-the-job training delivered by department managers. Mandatory 12-hour training programs for employees are renewed annually. As of 2024, a total of 18,262 hours of OHS training have been delivered to 1,280 employees. In addition, to raise awareness around disasters and emergencies in 2024, a total of 4,380 hours of training were delivered to 73 employees at our Aliağa site, and 120 hours of training to 60 employees at our Gebze site.

After providing updated training to emergency response teams, separate drills for earthquakes, first aid, fire, and evacuation were conducted in three shifts at our Gebze factory. Through these practices, we aim to further strengthen our occupational health and safety culture and plan to increase our OHS training by 50% by 2030.

Health Services

To support our employees' access to healthcare both at work and throughout their lives, we offer a complementary health insurance program. Through this program, our employees benefit from comprehensive healthcare services outside of work as well, improving their overall well-being with accessible, high-quality medical support.

At our Aliağa site, one full-time workplace physician and four healthcare staff members are on duty, while at our Gebze site, one full-time workplace physician and one healthcare staff member provide services. A 24/7 on-site infirmary ensures healthcare access across all shifts. Due to the nature of our field of activity, our organization is classified as high risk, requiring a high level of attention and control.

Our occupational physicians conduct health screenings for our employees during the hiring process and at least once every two years in accordance with relevant legislation. In addition, periodic medical check-ups are conducted when necessary to regularly monitor our employees' health status. These early diagnoses and preventive interventions help ensure compliance with occupational health standards.

In addition, routine medical check-ups are provided at the infirmary every morning between 07:00 and 10:00. Our healthcare personnel and workplace physicians regularly conduct site rounds to observe employees' general health and inspect the ergonomic and hygienic conditions of the work environment.

All these practices help protect our employees' health while also supporting our vision of a safe, healthy, and sustainable working environment. At Smart Solar Technologies, we know that a healthy future is only possible with a team that works under healthy and fair conditions. In line with this belief, we continue to improve our occupational health practices to strengthen both employee satisfaction and operational excellence.

Inclusive and Robust OHS Structure

We believe that lasting success in occupational health and safety (OHS) can only be achieved through a strong corporate culture shaped by the participation of all our employees. In line with this belief, we adopt an inclusive OHS management model that promotes horizontal participation and ensures that all stakeholders have a voice in decision-making processes.

As of 2024, a total of 21 OHS Committee meetings have been held, 6 in Gebze and 15 in Aliağa. These meetings actively contribute to occupational health and safety management processes and involve a total of 26 members and 7 employee representatives. Held regularly every two months, these meetings are attended by relevant department managers, OHS specialists, and employee representatives. The committees are convened under the leadership of the employer or employer representative and are designed to monitor OHS practices, assess potential hazards, and develop corrective and preventive recommendations to help prevent workplace accidents.

The direct encouragement of employee participation is one of the most important factors supporting the implementation of decisions taken during the meetings. To promote the active involvement of our employees in OHS processes, "near miss" boxes have been installed at our facilities for submitting suggestions and complaints. This practice aims both to identify potential risks in advance and to increase employee awareness.

Our OHS specialists support the adoption of safe working habits through continuous field observations and one-on-one communication. In addition, reward systems based on performance evaluations are being developed. Accordingly, efforts to promote positive safety behavior are carried out without interruption.

At the same time, our OHS performance is regularly monitored based on specific metrics. As of 2024, the key indicators for our Aliağa and Gebze facilities are as follows: [14]

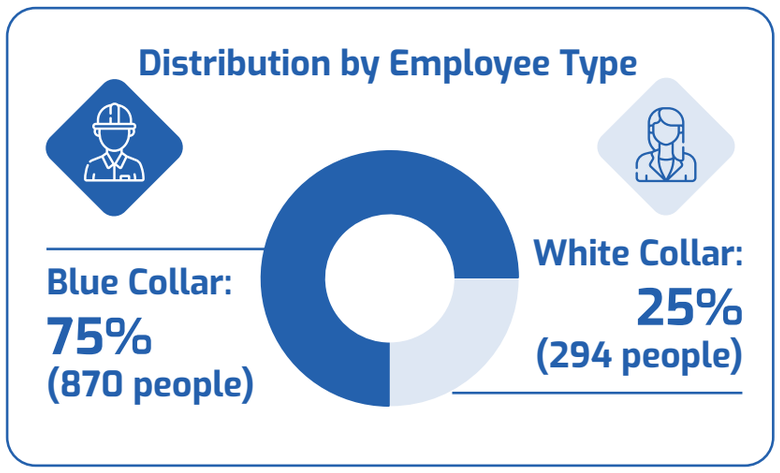
[14] *You can review our performance indicators for more detailed information.*

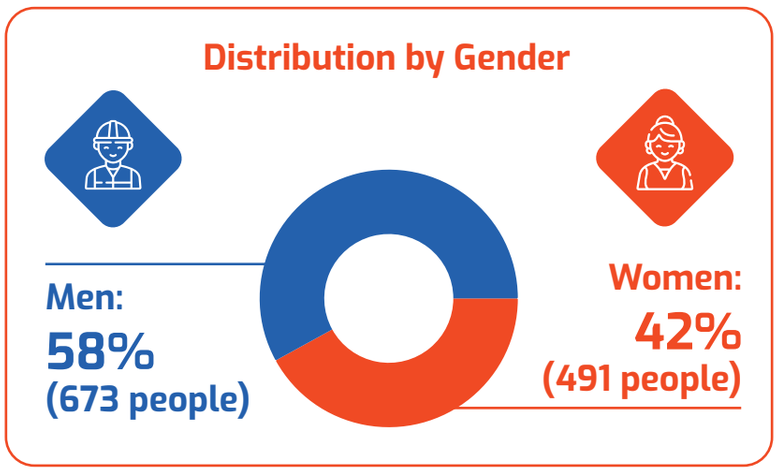
2024	Aliağa - İzmir	Gebze - Kocaeli
Number of Near Miss Incidents	2	2
Number of Fatal Workplace Accidents	0	0
Number of Occupational Illnesses	0	0

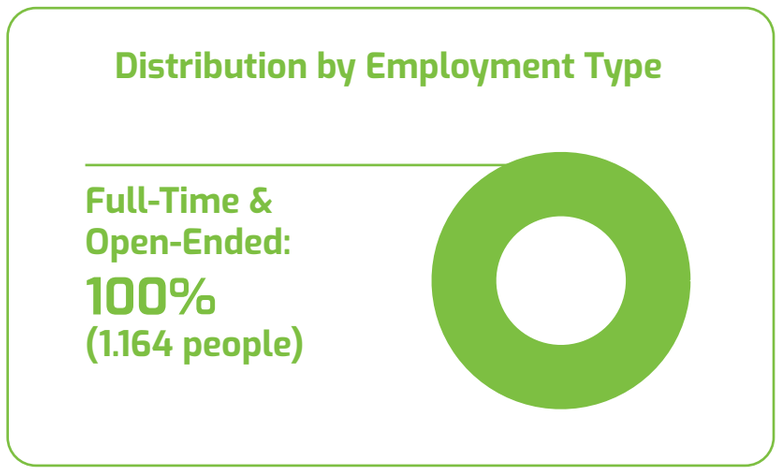
In line with our development-focused approach, we aim to reduce workplace accidents by 50% by 2030. To support this goal, continuous improvement activities are conducted, and OHS policies and risk analyses are regularly reviewed in light of ongoing developments.

Employee Rights and Management

Workforce Distribution (as of 2024)







At Smart Solar Technologies, we view our human capital as a key element that shapes our corporate culture, drives sustainable success, and plays a critical role in achieving our long-term strategic goals. We consider each of our employees to be an essential link in our corporate value chain and an active stakeholder. With this perspective, we prioritize the development of holistic policies that support not only our employees' professional growth but also their physical, mental, and social well-being.

Our goal is to create a safe, healthy, fair, and inclusive working environment that enhances individual satisfaction and organizational resilience while also placing human-centered development at the core of our sustainability strategy. In this context, our top priorities include protecting our employees' rights and creating a work environment where they can reach their full potential.

Accordingly, under our current collective labor agreement enacted in accordance with the Collective Labor Agreement Law, wage increases above the legally mandated minimum wage are provided, and additional payments are applied based on performance, experience, and job description. In addition, a wide range of benefits is offered, including full-pay sick leave, social assistance, family and child support packages, meal and transportation assistance, as well as holiday and special occasion bonuses. Through these practices, we aim to establish a balanced and holistic system that supports both our employees' professional lives and also their personal well-being.

In addition, we offer all our employees complementary health insurance, providing access to both public healthcare services and to private healthcare institutions. A significant portion of this insurance is covered by the company, which ensures that most healthcare expenses are secured and contributes directly to our employees' overall well-being.

We conduct all our human resources practices with a comprehensive approach that covers processes such as recruitment, onboarding, career development, performance management, training, promotion, compensation, employee benefits, and offboarding.

These practices are implemented in full compliance with national legislation and in alignment with ILO (International Labour Organization) conventions, with a strong commitment to fundamental rights and universal standards in the workplace. In this context, we design all application and evaluation processes to be non-discriminatory, transparent, and merit-based. To help new team members integrate quickly and effectively into the company, we implement comprehensive orientation and onboarding programs. As a result of these efforts, the retention rate of new hires within their first two years at the company was 69% in 2023.

We continuously improve our people-centered practices to enhance employee satisfaction and maintain high levels of engagement. In the coming period, we aim to systematize a range of practices designed to improve the employee experience, including participatory management models, support for personal and professional development, psychosocial well-being programs, and flexible working arrangements.

Accordingly, we are committed to building a workplace culture that highlights our employees' current contributions and also their future potential. This human-centered transformation within the organization will enhance our operational efficiency and the overall development of our sustainability performance.

Renumeration Policy

We adopt a fair, transparent, and competitive renumeration policy to enhance employee well-being.

We determine the compensation of our senior executives and employees based on the scope of their roles, competencies, experience, and merit. We assess our internal and external pay equity each year using the results of the Türkiye Salary Survey, and when necessary, the Human Resources Department prepares improvement proposals for submission to the Board of Directors. The Human Resources Department is responsible for implementing the policy and ensuring compliance with confidentiality provisions.

The compensation of our unionized employees is determined in accordance with the provisions of the current Collective Labor Agreement. Through this agreement, we aim to ensure earnings above the sector average by providing increases above the minimum wage. In addition, we include supplementary payments based on factors such as performance and experience to maintain income levels in a fair and sustainable structure.

We strictly uphold the principle of equal pay for equal work, providing fair and equal compensation to all employees regardless of gender or any other trait. In line with this principle, we structure our employee compensation to be at least 10% above the minimum wage and carry out regular analyses and improvements to maintain this level. As a result, we establish a sustainable system that supports both internal equity and our competitive strength in the sector.

Practices aimed at linking the variable pay system to sustainability performance indicators are currently in the planning stage. In line with TSRS governance principles, our company plans to integrate sustainability KPIs, such as greenhouse gas emissions intensity reduction and energy efficiency targets, into the variable compensation system to strengthen this connection. Accordingly, compensation will be structured to incentivize not only financial and operational outcomes, but also the creation of long-term sustainable value.

Employee Satisfaction, Engagement, and Social Practices

Feedback from our employees shows that our human resources policies are effectively reflected in practice and have a positive impact on satisfaction levels. These indicators demonstrate not only the strength of our physical working conditions but also the strong sense of emotional commitment and belief in our corporate culture.

According to the 2024 survey results, 72.8% of our employees reported being generally satisfied, 78.5% stated they feel a sense of loyalty to the company, and 83.6% indicated that their motivation is high.

In this context, increasing our employee satisfaction score by 5% remains one of our key priorities.

We conduct this survey to measure employee satisfaction regularly and systematically, and it is one of the core components of the feedback mechanisms that we implement throughout the year. Based on the survey results, we develop action plans that clearly identify areas for improvement and reinforce our strengths. We also compare these findings with the previous year's data to monitor our progress in a measurable and sustainable way.

We adopt a holistic well-being approach that addresses not only our employees' professional lives but also their social lives. With this understanding, we continue to strengthen our practices aimed at increasing social cohesion year after year. Through social events that foster internal solidarity and include employees' families, we reinforce the sense of belonging and strengthen our corporate culture together.

We invite all our employees to cultural and sports events held throughout the year along with their spouses and children, and we support them with shopping vouchers and incentive payments on special occasions such as Ramadan, Eid al-Adha, and New Year's.

On April 23, National Sovereignty and Children's Day, we make children a part of our corporate culture by offering specially prepared gift cards and educational activities for the children of our employees. Every October, we aim to ease the financial burden on families by providing educational support for all levels of schooling, from preschool to university.

We stand by our employees during life's special and meaningful moments. We celebrate the happiness of team members who get married or have children by gifting them a quarter gold coin, and we fully support their use of legal rights related to maternity and paternity leave during the parenting process. We continue to see our employees as the driving force behind our sustainable success and remain committed to investing in their growth.

Diversity, Equality, and Inclusion

At Smart Solar Technologies, it is a strategic priority to create a workplace where differences are valued, all employees have equal access to opportunities, and inclusive approaches are embraced. We believe that diversity within the organization is both essential for protecting individual rights and also forms the foundation for more innovative, fair, and sustainable decision-making processes.

With this belief, we implement our policies that promote diversity, equality, and inclusion (DEI) principles with determination at every level of our organization. In all our human resources processes, including recruitment, training, performance management, promotion, and compensation, we ensure equal opportunity and focus on building a structure where no employee faces discrimination based on gender, age, ethnicity, disability status, or any other difference, and where everyone can contribute freely.

We do not tolerate any form of discrimination based on personal differences in the workplace. We are fully committed to this principle to ensure that every individual has equal opportunities, and we uphold our zero-tolerance policy against discrimination and harassment not only in written documents but also in our daily practices.

Accordingly, we have established safe and accessible communication platforms where our employees can openly express their suggestions and complaints. We are committed to protecting our employees in the event that they are subjected to any discrimination, harassment, or injustice, and we provide support through complaint mechanisms that are transparent, reliable, and allow for anonymous reporting.

As of 2024, women make up 42% of our total workforce of 1,164 employees.

Despite operating in a sector where women's employment is generally low, this ratio is a clear indication of the importance we place on the principle of equality. We aim to increase the proportion of women employees to 50% by 2030. To achieve this goal, we are implementing supportive practices for leadership development and promotion processes.

As a result of this approach, we maintained the proportion of women on our Board of Directors at 45% in 2024, the same as in 2023. This ratio clearly reflects the importance we place on gender balance in senior management. Similarly, of the 870 employees working in field operations, 409 are women.

In this context, in 2024 we made two key commitments under the UN Global Compact's "Moving Forward Faster" initiative: to ensure equal pay for equal work by 2030, and to guarantee equal representation, participation, and leadership opportunities at all management levels. These commitments are an international reflection of our goal to maintain our inclusive corporate culture.

The employment and integration of persons with disabilities into professional life are key elements of our inclusive work culture. As of 2024, a total of 19 employees with disabilities work in our company, including 7 women and 12 men.

To improve accessibility in our factory and office areas, we have made adjustments to the physical infrastructure; we have built ramps to facilitate access, structured job descriptions appropriately, and developed specialized training programs. We aim to maintain the proportion of employees with disabilities at 3% in 2025.

We carry out information and training activities to raise awareness on diversity, equality, and inclusion within the company. As part of our "Farkında Mısın?" (Are You Aware?) project, we organize awareness training on women's rights, disability rights, combating discrimination, and equality. As of 2025, we plan to make these training programs mandatory for our employees and also for our suppliers and contractors.

In line with our approach to gender equality, we continue to implement dedicated programs for our women employees with determination. On March 8, International Women's Day, we celebrate this special day together through events and meaningful gifts, making visible the value we place on women's contributions. The importance we place on gender equality is also recognized by external stakeholders and the public. On March 8, 2024, in the special supplement of Sabah Newspaper titled "Türkiye's Women-Friendly Companies and Successful Women," we were highlighted as an example thanks to our pioneering approach in this area. This publication demonstrates that our commitment to equal opportunities and women's employment is also visible to the public.

As a result of all these practices, as of 2024, there have been no cases of discrimination in our company. Through our training and awareness activities, we continue to prevent complaints and further strengthen our inclusive corporate culture.

We see diversity, equality, and inclusion not merely as a policy but as an integral part of our corporate culture.

While building a work environment where each employee is valued for their differences and where their contributions are equally recognized, we remain determined to shape a sustainable future together through our inclusive leadership approach.

Our Commitments on Diversity, Equality, and Inclusion

Principle	Description
Zero Tolerance for Discrimination	Discrimination based on personal characteristics such as gender, age, origin, disability, religion, or orientation is not accepted.
Equal Opportunity	All HR processes are conducted with a focus on merit and performance.
Promoting Diversity and Inclusion	Active participation of women, youth, persons with disabilities, and other underrepresented groups in corporate processes is encouraged.
Awareness and Training	Anti-discrimination and equality training is provided to all employees and suppliers.

Career Management and Training

Believing that people are the strongest driver of sustainable growth, innovation, and corporate success, we adopt a holistic talent management approach to enable our employees to fully realize their individual potential. In line with this approach, we carry out core human resources processes, such as providing opportunities and training necessary for career development, identifying critical positions, creating succession plans, measuring competencies, and establishing performance evaluation systems, in harmony with our strategic objectives.

We base our training, development, career, and compensation practices on the principle of equal opportunity, ensuring that no discrimination is made on the grounds of gender, age, ethnicity, belief, or other differences.

Our training, development, and performance management policies are shaped in line with our corporate values and aim to enhance individual competencies, strengthen organizational capabilities, and ensure alignment between company goals and employee objectives. With this approach, we support a learning organization structure and offer a participatory, fair, and equal-opportunity environment for development.

We develop our employees for both their current positions and also for the roles they may take on in the future. For this purpose, our Career Management System supports individuals' long-term development journeys, while flexible working models make it easier to maintain work-life balance, especially for employees pursuing graduate studies.

At the same time, we have established an integrated structure with training programs that support technical, personal, and professional development. In addition, our "Energy at Work Process" orientation program for new employees enables rapid adaptation to our corporate culture.

Throughout 2024, we delivered more than 20,000 hours of training, providing strong support for both the individual and professional development of our employees. Our training content covers a variety of areas, including technical knowledge, occupational health and safety (OHS), ethics, personal development, environmental management, and foreign languages.

In this context, to ensure continuity in training and expand its impact, we aim to increase our total training hours by 20% by 2030.

In addition to these comprehensive training programs, as of 2024 we have introduced digital platforms supported by sector-specific technical programs, virtual simulations, and online modules. With the online training modules, our employees have the opportunity to develop at their own pace, without the constraints of time and place. At the same time, through virtual simulations and interactive training methods, we offer our employees more realistic and hands-on learning experiences.

In addition to these innovative approaches, the following sector-specific training modules have also been included in our program to enhance the technical knowledge, skills, and expertise of our employees:

- EKAT Training (Electric Power Facilities): 5 employees
- Electricity Market Real Estate Acquisition Training: 1 employee
- Unlicensed Electricity Generation and YEKDEM Training: 1 employee
- Safe Handling of Chemicals Training: 2 employees
- Fire Risk Management Training: 18 employees

In addition, many employees have received training at various levels in internal audit, ISO 50001, corporate social responsibility, incentive practices, accounting, human resources, and English language development.

Thanks to our comprehensive and multifaceted training and development approach, our employees are enhancing their potential to shape their careers, specialize in different fields, and make long-term contributions to the company. At Smart Solar Technologies, we believe that individual development and corporate progress are mutually reinforcing, and we shape all our training and career management practices with this belief. In this context, we remain committed to seeing employee development as a strategic priority and to cultivating the leaders of tomorrow starting today.

As part of our efforts to enhance the employee experience, our “Shoulder to Shoulder” project involves bringing together our head office and factory employees with our field operations. By observing and experiencing the processes firsthand, we strengthen empathy between teams and reinforce collaboration. This approach increases our organizational awareness and enables us to pursue our shared goals with a more holistic perspective.

In 2024, as an extension of this project, we implemented the “Shoulder to Shoulder Apprenticeship Program” at our solar power plant sites. During the three-day field experience, colleagues from different departments contributed directly to a clean energy project on site. We strengthened inter-process coordination, gained a closer understanding of the operational structure, and felt more deeply the responsibilities that come with working in the field. This experience reinforced our sense of achieving success together as a team and clearly revealed the areas where we can further improve.

Performance Measurement and Competency Development

We monitor and evaluate the competencies, skills, and performance levels of our employees annually, based on objective, clear, and measurable principles. Through the performance evaluation system we have established, our team members can clearly see their own contributions and manage their development journeys more consciously. We reward outstanding performance both financially and non-financially, and we address areas for improvement with supportive and guiding approaches. Accordingly, while making success an integral part of our corporate culture, we also provide employees with below-potential performance a constructive foundation for growth.

This approach has been further systematized under the SMARTest Performance Management Project. Within the scope of the project, we aim to:

- Link our business strategy with annual budgets and long-term goals,
- Disseminate company goals across the entire organization in an equal and consistent manner,
- Align sub-unit goals with main goals to manage performance holistically from the top down, and
- Establish a clear structure that enables all our employees to link their individual goals with corporate goals, clearly defining the areas where they can contribute.

We are further deepening this systematic approach through skill development and potential assessment processes. Initiated in 2023, this process was expanded across the entire organization as of 2024. Based on the competency sets we define for each position, we prepare individual development plans for our employees and implement them with the support of our mentors and coaches.

Our experienced colleagues guide those with less experience, ensuring the transfer and sustainability of our corporate knowledge. Accordingly, we strengthen individual development as well as the culture of learning between teams.

We are making our performance evaluation system more inclusive with each passing year. As of 2024, we have reached approximately 67% of our total workforce of 1,164 employees, with 782 employees receiving regular performance feedback. This ratio demonstrates that our performance management practices are in line with our principles of broad participation and inclusiveness. In line with our talent management strategies, we provide our employees with personalized development opportunities in their current roles and at every stage of their careers.

We shape promotions, job rotations, position changes, and career planning according to each individual’s strengths and goals, enabling both the realization of personal potential and direct contribution to our organizational strategy.

We measure the success of these processes not only at the implementation level but also in terms of their contribution to strategic goals and their impact on employees. Accordingly, we use concrete, data-driven measurement tools such as:

- Regular feedback surveys,
- Performance monitoring systems,
- Annual satisfaction scores,
- Employee turnover rates, and
- Competency development scores.

These indicators provide us with a holistic assessment in critical areas such as the quality of training, the effectiveness of implementation methods, the achievement rate of individual goals, and commitment to the company.

An important component of this system, the employee satisfaction score provides direct insight into the quality of training content and the effectiveness of methods. Employees' interest in the training programs, their perception of benefit, and their overall satisfaction level are regularly analyzed.

The success of the process is not limited to the level of satisfaction alone. Performance evaluation results objectively reveal progress in technical skill development and managerial competencies. Accordingly, while assessing the effectiveness of individual development plans, implementation results can be tracked with concrete data.

Evaluation is not limited to the individual level. Organizational indicators such as the employee turnover rate help us understand the impact of development opportunities on organizational commitment. The impact of training opportunities on employee engagement and long-term relationships with the company is systematically assessed through quantitative indicators and analysis outputs. In this context, as of 2024, our employee turnover rate stands at 37%, and we aim to reduce it by 10% and strengthen employee engagement by the end of 2025.

In line with this goal, we are increasing engagement and strengthening our forward-looking leadership infrastructure to ensure continuity within the organization. As part of our career management projects, in 2024, we implemented Succession Plans for key business positions to secure the long-term success and sustainability of our organization.

Through the Succession Plans, potential leadership candidates within the organization are systematically identified, and tailored development programs are implemented to prepare them for critical positions.

This approach ensures operational efficiency is maintained and continuity within the organization is secured, even in the event of sudden personnel changes.

Talent Acquisition

In addition to the programs we carry out for employee development, we place great importance on partnerships with universities and the industry to reach potential talent and expand our company's talent pool. This strategic approach not only develops our current workforce but also aims to identify the professionals of the future today and bring them into the industry. In this context, in 2024, we participated in the Istanbul Metropolitan Municipality (IMM) Employment Fair & Summit, where we became one of the companies receiving the highest number of applications. This achievement demonstrates the strength of our employer brand and our image in the industry.

Throughout the year, we engaged with young people at many major events, such as the METU Career Summit, the Istanbul Technical University Career Summit, and the Gebze Technical University "İş'te İşin" Employment Fair. These meetings were valuable experiences not only for sharing internship and job opportunities, but also for meeting potential future leaders we may work with and getting to know them better.

In addition to university students, we also create opportunities for young people in vocational education. This year, we once again offered internship opportunities to students of Adem Ceylan Private Final Technical High School, based in the Güzeller Organized Industrial Zone, where our Gebze facility is located. We contributed to the vocational development of young students studying in the renewable energy department by supporting them in gaining hands-on, on-site experience in solar panel production.

Social Capital

Business Ethics and Legal Compliance

We believe that corporate integrity, trust, and long-term success can only be built on a strong ethical foundation.

With this understanding, as Smart Solar Technologies, we base every stage of our business conduct on the principles of transparency, honesty, and openness.

We act with the responsibility of being evaluated not only by our economic performance but also by our commitment to ethical values, and we maintain a reliable, fair, and responsible corporate stance in full compliance with national and international regulations in all areas where we operate.

From our employees to our suppliers, and from our investors to our customers, we play an active role in promoting ethical and responsible business practices throughout our entire ecosystem. As in 2023, the absence of any legal or ethical non-compliance cases in our operations in 2024 is a concrete indication of this approach, which is firmly embedded in our corporate culture.

This corporate approach is based on ethical principles and reinforced not only at the policy level but also through awareness-raising training and capacity-building practices for all our employees. In 2024, within this scope, a total of 25 employees received 19.5 hours of business ethics training.

As part of our business ethics and compliance program, these comprehensive training programs covered legal obligations and also ethical conduct principles that align with our corporate values.

The training content includes the following topics:

- Human resources policy and employment conditions
- Labor relations, freedom of association, and the right to collective bargaining
- Combating discrimination and ensuring equal opportunity
- Standing against harassment and violence
- Measures against child labor and forced labor
- Occupational health and safety practices
- Environmental responsibility and environmental protection
- Avoiding unlawful acts and preventing conflicts of interest
- Combating bribery and corruption
- Efficient use of resources
- Proper use of IT systems and data privacy

Through these training programs, our employees develop a multi-dimensional understanding of ethics by recognizing not only their internal responsibilities but also their environmental, social, and governance (ESG) obligations.

In addition, to enhance our employees' competencies in sustainability and social compliance, a social compliance lead auditor training was provided by an independent third-party organization to the procurement, human resources, and sustainability teams working at our Aliağa factory, our Gebze factory, and the head office.

These training sessions have equipped participants with the knowledge needed to identify and prevent ethical risks in a wide range of areas, from supply chain management to corporate social responsibility.

Our business partners and suppliers are also evaluated in line with our ethics and compliance standards. Within the framework of the Supplier Code of Conduct, we obtain a full commitment from these parties to comply with our ethical rules, and when necessary, conduct independent assessments and second- or third-party audits. We provided ethics-related training to 21 raw material suppliers and 5 contractors, thereby promoting the adoption of high ethical standards across the supply chain.

As a tangible indication of all these practices, the SEDEX (Supplier Ethical Data Exchange) audit was successfully completed in 2024. Conducted within the scope of this internationally recognized social compliance platform, the audit confirmed the effectiveness of our practices in business ethics, employee rights, occupational health and safety, and environmental responsibility. It has also served as a strong reflection of our corporate commitment to building a sustainable and ethical supply chain.

To sustain this approach, we have also established the necessary reporting and consultation mechanisms to ensure the effective functioning of ethical processes. When faced with an unethical situation, our employees can send their reports in confidence to the email address **etik@smartsolar.com.tr.** All submissions are reviewed independently without any risk of reprisal, and disciplinary measures are taken when deemed necessary.

Our ethics complaint evaluation mechanism is structured to address potential ethical concerns, particularly regarding our way of doing business, human rights, labor rights, environmental management, and anti-corruption. We have specifically designed this system to identify in a timely manner, transparently investigate, and effectively resolve situations that may be contrary to our company's ethical principles.

We present the processes for providing information on ethical principles and submitting complaints to all our employees in local languages, in a clear and understandable manner. Accordingly, we remove language barriers, ensuring that all our employees fully understand the processes and feel comfortable sharing their concerns.

We ensure that everyone can easily access the informational materials (forms, written explanations, etc.). If they have any questions, uncertainty, or requests for guidance regarding ethical principles, our employees and relevant stakeholders can directly consult the Ethics Committee. In addition, for employees seeking support on business ethics, regulatory compliance, or legal responsibilities, we provide effective consultation mechanisms through our Internal Audit and Legal departments. These units play an active role in both the preventive management of potential risks and in strengthening internal ethical awareness.

This approach is not limited to our company alone. Commitment to ethical principles is also among our top priorities in all our relationships with our suppliers and other business partners. Our suppliers, customers, and business partners can share their ethical concerns with us using the same mechanisms. For our suppliers seeking advice on ethical matters, we have two dedicated communication channels:

surdurulebilirtedarikzinciri@smartsolar.com.tr
sustainablesupplychain@smartsolar.com.tr

Accordingly, we maintain the same ethical stance both within the company and throughout our entire value chain.

Compliance with National and International Legal Regulations

Smart Solar Technologies adopts full compliance with laws, regulations, and ethical principles in all geographies where it operates as a fundamental principle.

In addition to complying with national regulations in Türkiye, our company operates with a management approach aligned with international regulations, particularly global standards such as ILO conventions, the United Nations Global Compact, and European Union regulations.

This approach covers fulfilling legal obligations and also meeting social and environmental responsibilities in a holistic manner.

Anti-Bribery and Anti-Corruption

Our company adopts a zero-tolerance policy in the fight against bribery and corruption by establishing a structure based on the principles of transparency, honesty, and accountability in all business processes. Through our Anti-Bribery and Anti-Corruption Policy, we ensure that all our departments, employees, and business partners act in line with ethical standards.

In our daily operations, we do not allow any form of bribery, commission, facilitation payment, or practices aimed at securing undue advantage. Our rules on gift acceptance and conflicts of interest are clearly and explicitly defined within the framework of the Code of Professional Ethics In this context, even if intended to create value, it is not acceptable to accept or offer gifts that could have an influence. Likewise, facilitation payments, initiatives that could turn into personal gain under the guise of donations, or conflicts of interest arising from one's role are also considered contrary to our corporate ethical principles.

It is essential that our employees act solely in the interest of the company while fulfilling their duties and responsibilities. In this regard, if an employee abuses their authority for their own benefit or that of third parties, we assess the situation in line with our ethical rules and, if necessary, initiate the disciplinary process. Depending on the nature of the violation, we carry out the entire process meticulously and transparently, including termination of employment if deemed necessary. In addition, the use of company resources is also evaluated within the same principles. Our resources are used solely for corporate purposes and are strictly prohibited from being used for personal gain or individual benefit.

In this regard, preventing conflicts of interest and ensuring impartiality in business processes are integral parts of our corporate ethical approach. It is a clear violation of ethical principles for our employees to use their positions to benefit themselves or their close circles, or to grant privileges to third parties. All our employees and managers act with the responsibility of representing our company and are obligated to use company resources effectively, efficiently, and for their intended purpose.

When we encounter such situations, we conduct our disciplinary process in an open, systematic, and fair manner. Our process consists of verbal warning, request for defense, and written warning stages, and all decisions taken are securely recorded in the personnel file of the relevant employee.

To ensure that all our employees have the same level of knowledge and awareness, we regularly conduct briefings and training processes. Knowing and applying the ethical rules is a fundamental responsibility for every team member in our organization. Therefore, in the event of a rule violation, "being uninformed" is not accepted as a valid excuse.

These practices are part of our internal audit system and form the foundation of our current Anti-Bribery and Anti-Corruption Policy**.** Introduced in 2022 by a decision of the Board of Directors, this policy has since been regularly reviewed and updated as needed. Supported by internal audit activities, employee feedback, and process monitoring, this policy enables us to integrate our ethical corporate approach into both our internal processes and our supply chain.

As a result of this approach, no public lawsuits related to corruption were filed, and no legal proceedings were initiated against our company or our employees during the 2024 reporting period.

During the same period, there were also no business partnership agreements terminated or not renewed due to corruption. This clearly demonstrates the effectiveness of our ethical principles and mechanisms, showing that our zero-tolerance approach has been internalized across the organization.

Customer Satisfaction and Responsible Marketing

At Smart Solar Technologies, we do not view our relationships with customers merely as interactions shaped around a sales process or technical service. For us, each of our customers is an integral part of our goal to create sustainable value. In these relationships, built on mutual responsibility, we place importance on establishing a responsive, transparent, and long-term cooperation. We aim to build a trust-based bond with our customers not only upon delivery of the product or service but at every step of the process.

All the solutions we offer are designed to meet technical requirements and to comply with health, safety, and ethical standards. In this context, we meticulously comply with all applicable local, national, and international regulations, and closely follow the guidelines issued by sectoral authorities as well as evolving regulations.

At every point of contact, we operate with a reliable, conscientious, and responsible service approach.
In this process, we manage operations by anticipating potential risks and taking necessary precautions to ensure our customers experience no disruptions. We regularly update our risk assessments, carefully analyze customer feedback and negative experiences, and develop systemic solutions. Our goal is to both resolve complaints and to turn such feedback into insights that fuel our ongoing culture of improvement.

In line with this approach, as of 2023, we have developed a more comprehensive approach to customer satisfaction. To better understand our customers' expectations and needs, we have launched Customer Satisfaction Survey initiatives. In addition to regular customer meetings, feedback obtained through these surveys is evaluated by the Business Development and Quality Units, and necessary actions to address identified issues are implemented swiftly. We see this process not only as real-time feedback management but also as a development opportunity supported by deeper customer segmentation and behavior analysis.

The findings obtained allow us to go beyond measuring customer satisfaction, enabling us to better understand the expectations of different customer groups. In light of this information, we have shaped our marketing strategies with the goal of offering each customer the most suitable, personalized, and targeted solutions. Accordingly, we integrate our customer-focused approach into our corporate structure and manage it within a traceable and sustainable system.

We also see information processes as one of the building blocks of customer satisfaction. We prepare informative content on the safe and effective use of products, ensuring that our customers have access to accurate information at every stage. At the same time, we conduct regular training programs to ensure that our employees can convey this information accurately and consistently. With these training programs, which focus on health and safety, we strengthen both internal communication and the customer experience.

In marketing communications, we prioritize consistency, accuracy, and clarity. While delivering the same message across all channels, we take care to provide complete information on product features, pricing, and service conditions. This transparent communication with customers stands out as one of the key elements supporting our brand credibility. We also maintain an active presence on digital platforms where customer interactions are most intense. We closely monitor comments and questions received through social media and respond to negative feedback as quickly as possible. Accordingly, we keep our dialogue with customers strong not only at face-to-face touchpoints but also in digital environments.

We are aware that making customer satisfaction sustainable is not limited to quality service and effective communication. In this regard, we approach the issue of data security with great sensitivity.

Our approach to data privacy is not limited to customer information; it covers a wide scope that includes our company's relationships with all stakeholders. In this context, contract contents, information on business partnerships, supplier data, customer records, employee information, financial reports, documents related to organizational structure, and all information regarding corporate strategies are considered within the principle of confidentiality. We implement all necessary security measures to prevent the unauthorized sharing, alteration, copying, or deletion of this data.

At the core of our customer satisfaction and responsible marketing approach lies our goal of building a trust-based, long-lasting relationship with our customers that generates mutual value. In every service we provide, we meet technical expectations while also supporting the sustainability of our customer relationships through elements such as transparent communication, ethical responsibility, and data security.

Sustainable Supply Chain Management

At Smart Solar Technologies, we consider responsible sourcing a strategic priority in today's world, where global value chains are becoming increasingly complex and social and environmental risks are on the rise; we expect all our business partners to act with the same understanding. In this context, we adopt a comprehensive set of policies and practices that integrate our supply chain processes with environmental, social, and governance (ESG) criteria.

As an organization providing integrated manufacturing and engineering services in the field of solar technologies, we implement a strong and reliable supply chain management system within the framework of the sustainability principle.

The procurement of critical materials used in panel production, such as wafers, solar cells, glass, aluminum frames, junction boxes, EVA, and backsheets, is conducted in line with high-quality standards and sustainability criteria.

In sourcing these materials, we consider criteria such as quality, sustainability, cost, and supply continuity among our top priorities.

We source 81% of our supplies domestically and 19% from abroad. Based on purchase value, our local supplier purchases account for 69% of our total procurement, while international sourcing represents 31%.

This strong local supplier base not only enhances our supply security but also supports our goal of contributing to sustainable local development. We aim to further increase our local sourcing rate; in this context, we regularly evaluate new local suppliers and diversify our supplier portfolio. Accordingly, we are building a resilient and sustainable supply chain model that also accounts for environmental impacts and social benefits.

To increase the resilience of our supply chain and protect against possible supply disruptions, we implement long-term agreements, regular supplier evaluations, and geographic diversification policies.

As of 2024, with the completion of the new cell production system, we strengthened our organizational structure by consolidating core functions such as EPC procurement, raw material and investment procurement, indirect procurement, logistics, operations, and data management under one roof. We have also strengthened our strategic partnerships by renewing contracts with certain international suppliers.

As a continuation of our strategic audit approach, we implemented on-site audit processes to measure and improve the sustainability performance of our supply chain in 2024. Within this scope, we conducted physical audits in 12 different factories belonging to 10 raw material suppliers to confirm their compliance with the Smart Supplier Code of Conduct.

The audits were conducted in detail under headings such as ethical principles, environmental responsibility, working conditions, human rights, and corporate governance.

Following the audits, in line with the findings identified, we developed improvement plans with 50% of the audited suppliers and systematically monitored the implementation of these plans. We worked with our suppliers to address non-compliant issues.

At Smart Solar Technologies, our priority is to carry out initiatives that contribute to the development of our suppliers in order to establish strong, long-term partnerships. We also made it clear during the evaluation process that if non-compliances with our Supplier Code of Conduct are not resolved, termination of the business relationship is a possibility.

This on-site audit process identifies current risks and also enables us to take concrete steps to reinforce a culture of responsible business in our supply chain and to continuously improve our sustainability performance.

No matter where in the world, we do not accept any practices in our supply chain that violate our Supplier Code of Conduct, especially forced labor.

Using an internationally recognized third-party independent risk assessment tool for which we hold a license, we conduct detailed analyses of our current and potential suppliers in the areas of environmental management practices, labor rights, quality of governance, transparency, and compliance with codes of conduct. This assessment covers not only social and ethical risks but also environmental factors such as climate change, greenhouse gas emissions, environmental pollution, impacts on biodiversity, and the use of natural resources.

Accordingly, we identify suppliers that are not aligned with our approach to addressing climate-related risks early on and take the necessary improvement steps without delay. To prevent these risks before they occur, we provide our suppliers with training on business ethics and responsible supply chain practices. In 2024, we provided such training to 5 contractors and 21 raw material suppliers, aiming to prevent not only current risks but also potential long-term risks. In addition, by enabling 12 employees from our sustainability, procurement, and human resources departments to participate in social compliance lead auditor training, each lasting 32 hours, we have significantly strengthened our internal awareness.

Supplier Monitoring Process Steps

1. Comprehensive mapping of the supply chain
2. Approval of the Supplier Code of Conduct
3. Assessment of supplier risks (using a third-party independent risk assessment tool)
4. Site visit and gap analysis
5. Follow-up on action plans and supplier development
6. Risk-based periodic audits

Beyond the operational steps aimed at increasing the structural resilience of our supply chain, we also adopt a sourcing approach based on social responsibility and ethical values as an integral part of our sustainability strategy. The Supplier Code of Conduct, that we have established within this framework has been prepared in line with the International Labour Organization's (ILO) 1998 Declaration on Fundamental Principles and Rights at Work, the relevant ILO conventions, and the Ten Principles of the United Nations Global Compact. We expect all stakeholders in our supply chain to conduct their activities in a manner that respects human rights, upholds social justice, takes environmental impacts into account, and complies with business ethics.

The main criteria we base our evaluation processes on within the scope of the Supplier Code of Conduct are:

- Ensuring a healthy and safe working environment for all employees in our supply chain,
- Protecting children's rights and maintaining zero tolerance for child labor,
- Ensuring that no employee is subjected to treatment that violates human rights, and
- Making environmental awareness an integral part of business processes.

At Smart Solar Technologies, we regularly evaluate our suppliers in line with these principles and expect them to comply with the Smart Supplier Code of Conduct. We also closely monitor the practical implementation of the principles we have established to promote ethical, fair, and responsible business practices throughout our supply chain.

We apply a zero-tolerance policy for child labor, forced labor, discrimination, and mistreatment, and we expect our suppliers to submit concrete improvement plans in cases of non-compliance. We regularly monitor and report on the implementation of these plans.

As a result of this approach, in the supplier audits we conducted in 2024, no cases of child labor or forced labor were identified.

This outcome demonstrates that field practices are being carried out in alignment with our ethical principles and that our systematic approach is functioning at a reassuring level.

How Do We Source Responsibly?

We map our supply chain for all materials included in our product.

- Panel Components:
- Frame
- Glass
- Encapsulant (EVA)
- Solar Cell
- Backsheet
- Junction Box
- Solar cell production chemicals
- Cardboard

Audits

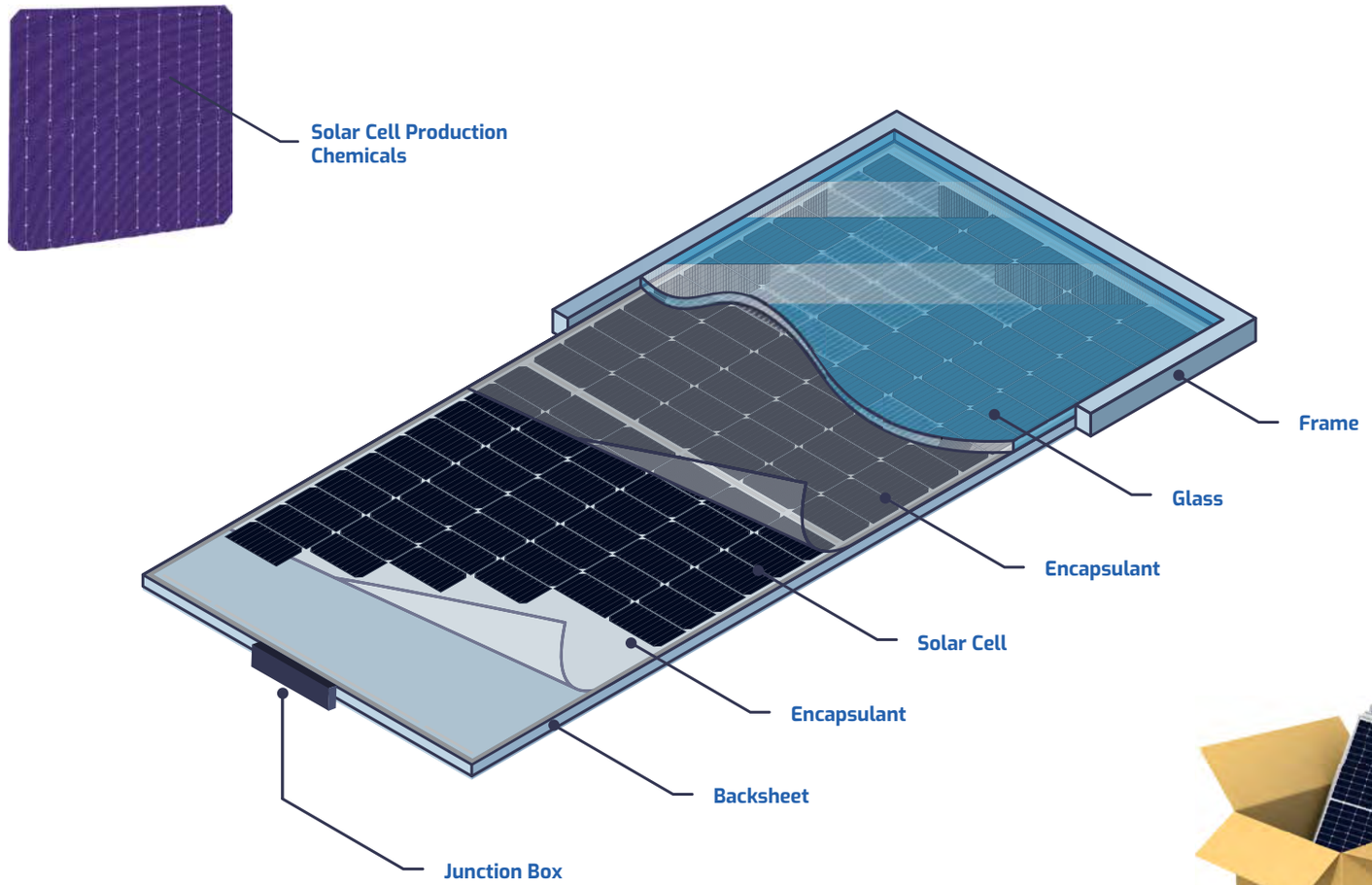
We perform 2nd and 3rd party physical audits based on the Supplier Code of Conduct for all our 1st-tier suppliers.

Corrective Action Plan and Follow-up

In cases where non-compliance is identified, we require our suppliers to prepare corrective action plans. We regularly monitor the implementation of these plans.

Supplier Improvement Activities

We support our suppliers' sustainability efforts through training and various projects.



Mapping our supply chain

Approval of our suppliers to the Supplier code of conduct

Supplier risk assessment

Gap analysis with physical site visit

Follow-up of actions and supplier developments

Regular audits according to risk level

Our Polysilicon Traceability Strategy

Our sense of responsibility requires a much deeper and more meticulous approach, especially in high-risk procurement areas. In this context, we manage the risks related to the polysilicon supply chain with particular care. China's Xinjiang Uyghur Autonomous Region stands out as a high-risk area, documented by international research in relation to child labor and forced labor practices.

For this reason, we implement a multi-layered monitoring and control system to ensure that there is no direct or indirect procurement from this region in our supply chain. To eliminate such risks in the polysilicon supply chain, we regularly obtain traceability reports for our products and verify the source of our raw materials. **We document and confirm that no company from the Xinjiang Uyghur Autonomous Region is included in our supply chain.**

This approach is not limited to the Xinjiang region but is applied across our entire supply chain. **As Smart Solar Technologies, in line with our zero-tolerance policy toward human rights violations, we assess all our resources with the same level of care, regardless of the geographic location where our suppliers operate.** Wherever they occur, we conduct monitoring, evaluation, and, when necessary, intervention processes to identify, verify, and eliminate potential risks. This approach forms the cornerstone of our sustainable supply chain vision.

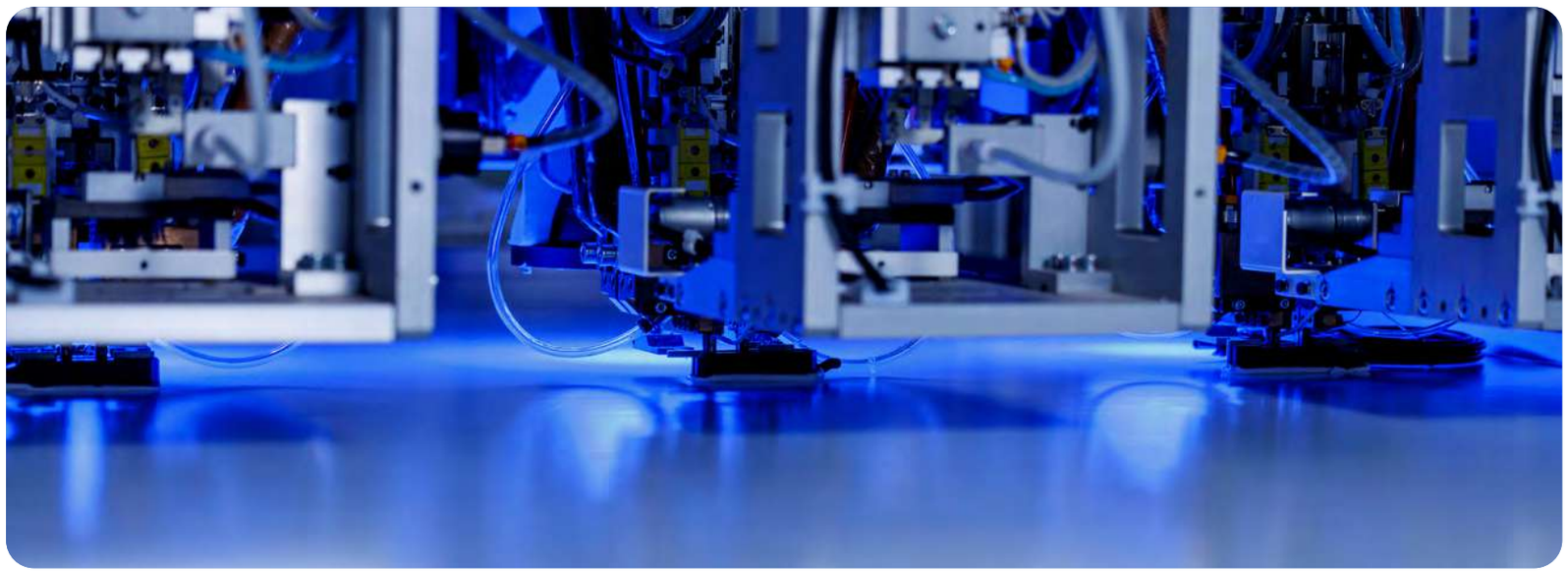
To prevent any practices in our polysilicon supply chain companies that are inconsistent with our Supplier Code of Conduct, we openly share our traceability requirements with our suppliers. In line with our principle of transparency from raw material to final product, we expect our suppliers to disclose to us all companies in their supply chain.

Our goal is to ensure polysilicon traceability across all processes from the customer point back to the raw materials, to enable documentation that every actor in the supply chain is involved in this process, and to be certain that there is absolutely no use of forced labor in our polysilicon supply chain.

In this regard, we map all companies involved from quartz mining through the production stages of metallurgical-grade silicon, polysilicon, ingot, wafer, and cells. To verify the companies used in our supply chain, we obtain traceability documents from our suppliers. We also aim to promote this approach based on mutual trust by holding awareness sessions with our suppliers about our strategy and expectations.

We do not limit this approach to specific geographic risks; instead, we conduct independent preliminary review processes for our suppliers worldwide to systematically monitor any potential risks of violations such as child labor and forced labor. By carrying out our audits through both internal second-party and independent third-party sources, we ensure verification of our documentation and also of our practices in the field. As a result, we are building our polysilicon and other raw material supply chain processes on a foundation of transparency, traceability, and ethical responsibility.

With the traceability reports we obtain, we map our polysilicon supply chain end-to-end; through our early detection approach that prevents environmental and social risks, we take necessary measures in a timely manner. Within this framework, we continue to strengthen our commitment to building an ethical, safe, and sustainable supply model.

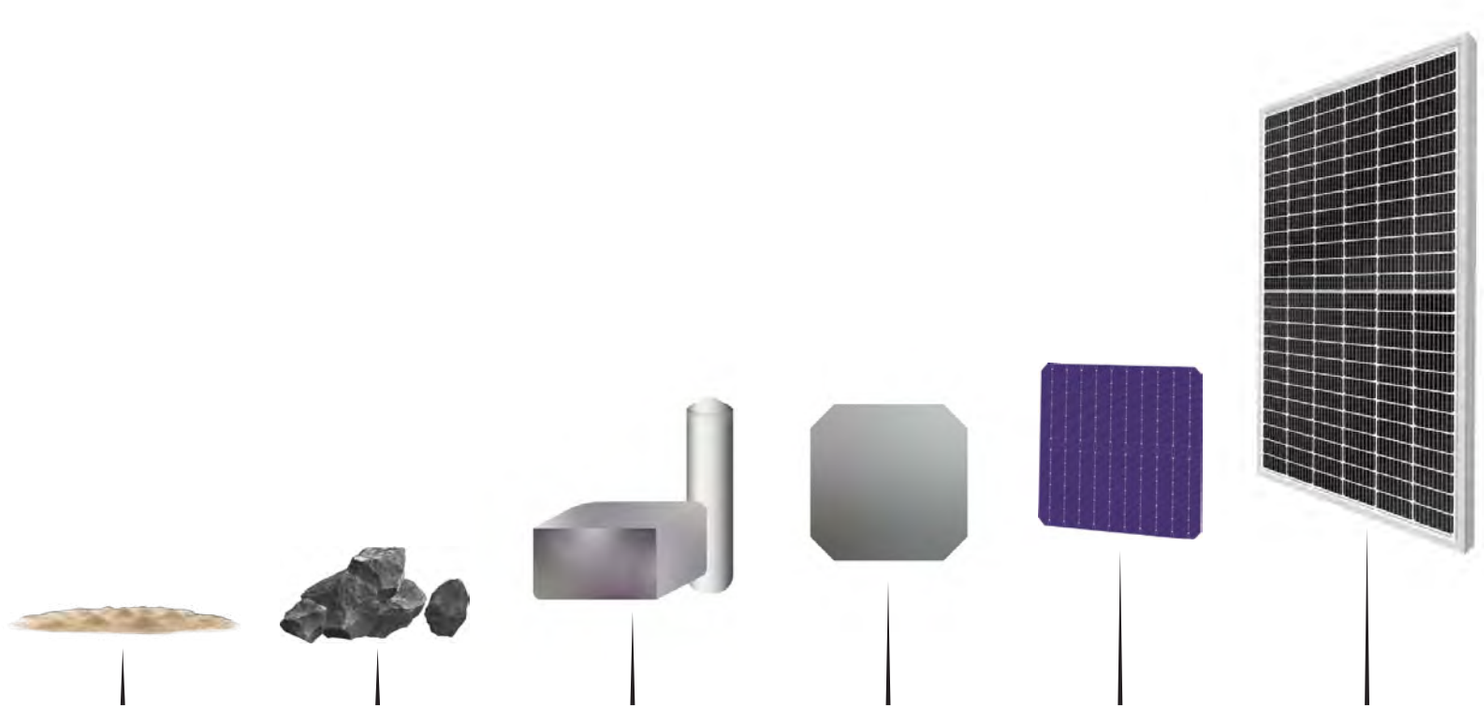


Our Polysilicon Supply Chain Human Rights Compliance Actions

We map our polysilicon supply chain starting from the excavated quartz.

Stages:

- Quartz
- Polysilicon
- Ingot
- Wafer
- Cell
- PV Module



Risk Assessment

We conduct human rights–focused risk assessments for all companies in our supply chain.

Due Diligence

We carry out comprehensive due diligence activities to verify compliance with human rights, in line with the core requirements of our Supplier Code of Conduct.

Traceability

In line with our Polysilicon Traceability Requirements, we monitor our deliveries to ensure that no companies supporting human rights violations such as forced labor are involved in our operations.

Prevention of Human Rights Violations

If any human rights violations are identified, we take immediate action to mitigate the risk, including, when necessary, removing the violating companies from our supply chain.

Corporate Social Responsibility Projects

As Smart Solar Technologies, we position corporate responsibility as a fundamental element of our business approach. In line with our sustainability vision, we aim to create long-term value in harmony with the principles of social development, environmental protection, and corporate citizenship.

Our social responsibility approach is shaped in line with our Corporate Social Responsibility and Human Resources policies; we deliver tangible results through projects that we implement in priority areas such as environmental sustainability, quality education, a culture of volunteering, and social awareness.

While pursuing these goals, we place volunteering at the heart of our social responsibility approach. We encourage our employees and business partners to take part in volunteer activities, making volunteering a natural part of our corporate culture. We also establish open communication channels for collecting opinions and suggestions about our social responsibility projects, ensuring active participation of all our stakeholders in this process.

As a reflection of our multifaceted approach, we implemented numerous social responsibility projects in line with our vision of building a sustainable future throughout 2024. We aimed to create tangible and measurable impacts in key areas such as education, environmental awareness, social solidarity, and local development.

Education and Youth-Focused Projects: The Energy of the Future Meets the Leaders of the Future

Through these projects, we supported the professional development of young people while also conducting initiatives that reached different segments of society. Education-related activities were among the highlights of this period.

Within the scope of Smart Solar Academy, we established strong partnerships with vocational high schools and universities,

organizing technical training programs, internship opportunities, and factory tours at our headquarters and production facilities.

Especially at our Gebze facility, we provided internship opportunities to students from Adem Ceylan Private Final Technical High School, located in the Güzeller Organized Industrial Zone, enabling them to gain direct hands-on experience in solar panel production.

As part of this scope, we hosted Dene Yap (Try It) Project students at our factory during the event. Young talents had the opportunity to closely explore the innovation behind our technologies by observing our solar panel production processes on-site. Through such visits, we share knowledge and inspire young people who will carry sustainable solutions into the future.

In addition, at our Izmir factory we hosted academics and students from Manisa Celal Bayar University, providing them with an on-site introduction to photovoltaic panel production and testing processes. Meeting with young people who will shape Türkiye's sustainable future and sharing our experiences with them continues to be an important part of our education vision.

In addition to these face-to-face meetings, as Smart Solar Technologies we took part in the "İşte İşin Fair" organized at Gebze Technical University. By sharing career opportunities in the energy sector and our innovative technologies with students, we have supported our goal of attracting young talent to our industry.

We established the Smart Solar Energy Workshop in 2023; it remained actively operational in 2024, increasing student participation in production processes and further strengthening our hands-on technical training infrastructure.

Joint Steps with the Industry for Social Impact

Our efforts were not limited to education; to closely follow industry developments and bring our sustainability strategies to a broader audience, we took part in major national and international events such as SolarEX Istanbul, InterSolar Europe, and the Türkiye Sustainable Energy Summit. The experiences we gained at these events enabled us to further expand our vision in the field of social impact.

To ensure the continuity of all these efforts, we review our corporate social responsibility policies each year and enhance them to encourage greater stakeholder participation. In this context, we have set concrete and measurable targets for the upcoming period:

- Increase the volunteer participation rate to 30% by the end of 2026,
- Expand the scale of mentorship and technical training programs carried out with universities and vocational high schools by 10%,
- Develop at least one new social responsibility project each year, and
- Increase stakeholder engagement by 25% by 2030 compared to 2024.

Growing Impact Together: Niğde Bor Project

We position corporate social responsibility as a centrally planned strategy and as a tool for transformation that is sensitive to local needs in every region where we operate. An effective and tangible example of this approach, the Niğde Bor Project has created multidimensional value not only through clean energy generation, but also by providing local employment opportunities, fostering community engagement, and contributing to infrastructure.

Within the scope of the project, we made a significant contribution to our goal of sustainable social development on a regional scale through the relationship of mutual trust we built with the local community, engagement meetings held for women, technical training, and transparent feedback mechanisms.
For more information on the project, the actions taken, and the impact created, please refer to our "Local Contribution and Social Impact" and "Community Engagement and Social Responsibility" sections.

Social Solidarity Through Corporate Support

We reinforce our understanding of social responsibility through social projects and through the financial and in-kind support we provide at the corporate level. In line with our company's social contribution strategy, we make donations and provide assistance to institutions and organizations operating in the fields of science, technology, education, culture, arts, environment, and sports, in full compliance with the Capital Markets Law and relevant regulations, with the approval of the General Assembly, and in a completely transparent manner.

At our Annual General Assembly meetings, we determine the maximum donation amount that may be made in the next fiscal period. In line with our Donations and Aid Policy, we present the total amount of all donations and assistance provided, along with the institutions benefiting from this support, to our shareholders as a separate agenda item, and we also disclose this information to the public through our annual report.

Donations have been made to institutions such as the Turkish Education Foundation, Boğaziçi University Foundation, Solar Energy Industry Association (GENSED), METU Development Foundation, and the Turkish Sports and Education Foundation for the Disabled (TESYEV), and sponsorship support has been provided to METU GÜNAM to support academic research in the field of solar energy. In December 2024, the proceeds from a charity market organized within our company were donated to the Young Pearls Association (Genç İnciler Derneği). Following the charity market, with the contributions of Smart Holding, which is our main shareholder, the Young Pearls Association paid a thankyou visit to our company. During this meaningful meeting, our Chairman of the Board, Halil Demirağ, was presented with a plaque of appreciation. In addition, in partnership with TESYEV, we organized fundraising campaigns during the Istanbul Marathon to support the education of students with disabilities.

Every community we reach, every life we touch, and every young person we support today makes it possible to build a more conscious and stronger society for tomorrow. That is why we aim for more with every step we take: more stakeholders, more contribution, more impact. **As Smart Solar, we are not only developing solar technologies; we are sharing knowledge, building the future with young people, and shaping society together.**

Appendices

Climate-Based Risk Analysis Table

RISK

Priority Material Issues	Related Risk Name/Type	Scenario
Sustainable Supply Chain Management	Transition Risk Ð Risk of Reduced Production Capacity due to Supply Chain Source	Orderly Transition Scenario (Planned and Diversified Supply) Disorderly Transition Scenario (Sudden Shocks and Regional Disruptions) Hot House World Scenario (High Physical Risk and Global Supply Shocks)

Risk Definition: Climate change may cause disruptions in raw material supply chains. Extreme weather events may lead to transportation interruptions, late delivery of raw materials, and prevent the distribution of finished products, creating logistical difficulties for supply chains and operations.

RISK ASSESSMENT

Effect	Effect Description	Impact (1Ð5)	Likelihood (1Ð5)	Risk Severity (Impact × Likelihood)	Time Horizon	Financial Materiality (1Ð5)	Financial Effect Description	Relevant Balance Sheet / Income Statement Item	Potential Financial Effect Amount
Interruption of production processes, reduction of production capacity	Delays in raw material supply may cause significant interruptions in production processes.	32		6L	ong-term	3S	upply chain disruptions caused by climate change may result in production losses, leading to approx. USD 11,500,000 potential revenue at risk.	Net Sales	406,410,000 TL

Response Activities and Financial Effects

The climate risks of domestic and international critical suppliers are evaluated through scenario analyses (IPCC SSP1 2.6 and SSP5 8.5).
Imported glass and aluminum frame suppliers show relative sensitivity in terms of sustainability.
Delays in raw material supply may halt production. To avoid this, alternative suppliers and ESG-certified procurement contracts are pursued.
Stress tests are carried out to evaluate supplier resilience.
Political, regulatory, or climate-related delays are managed by developing alternative supply strategies (audits, visits, training, etc.).
Costs are included under General Administrative Expenses.

OPPORTUNITY ARISING FROM RISK

Related Opportunities	Impact Materiality	Financial Materiality	Relevant Balance Sheet / Income Statement Item	Effect on Item
Within alternative supply development, efforts are made to produce imported raw materials domestically. This reduces logistics costs and foreign exchange dependency. The approach shortens supply chains, lowers costs, and provides economic efficiency.	43		Cost of Sales	Reduction in procurement costs

RISK

Priority Material Issues	Related Risk Name/Type	Scenario
Biodiversity Conservation and Ecological Impacts	Acute Physical Risk Ð Heavy Rainfall, Storm Exposure Risk (EPC)	Orderly Transition Scenario (Planned and Diversified Supply) Disorderly Transition Scenario (Sudden Shocks and Regional Disruptions) Hot House World Scenario (High Physical Risk and Global Supply Shocks)

Risk Definition: As a result of climate change, extreme weather conditions, floods, and fires may disrupt EPC site installations and damage plant infrastructure under O&M contracts. Maintenance teams may face difficulties accessing sites during heavy rainfall or storms, extending repair times and increasing costs.

RISK ASSESSMENT

Effect	Effect Description	Impact (1Ð5)	Likelihood (1Ð5)	Risk Severity (Impact × Likelihood)	Time Horizon	Financial Materiality (1Ð5)	Financial Effect Description	Relevant Balance Sheet / Income Statement Item
Production interruption and revenue loss	Severe weather events: delays in site installations, logistical issues, O&M access problems, safety risks, potential operational delays. Floods or fires may damage plant infrastructure, causing long-term damage and emission risks.	26	3		Medium-term	3	Each EPC project includes unique technical and contractual conditions. Project delays may result in financial impacts (lost revenue, penalties, operational costs). These cannot be standardized and must be assessed case by case. Project managers track and report regularly.	Net Sales

Response Activities and Financial Effects

Insurance is used to mitigate financial losses from extreme weather events.
Environmental factors (snow load, wind load) are considered in site design.
Climate-related risks are included in Business Continuity and Crisis Management Plans, which are updated annually.
Risk Early Detection Committee and Crisis Management Team review these annually.
Current EPC project annual insurance premium: approx. USD 300,000.

OPPORTUNITY ARISING FROM RISK

Related Opportunities	Impact Materiality	Financial Materiality	Relevant Balance Sheet / Income Statement Item	Effect on Item
Optimized site designs considering local snow/wind load increase EPC competitiveness. Drone-based storm monitoring improves efficiency and creates new technical service opportunities.	23		Operating IncomeI	ncrease in revenues (value-added EPC services) Reduction in penalties (due to fewer delays) Lower insurance expenses (parametric policy advantage)

RISK

Priority Material Issues	Related Risk Name/Type	Scenario
Economic Performance	Acute Physical Risk Ð Heavy Rainfall, Storm Exposure Risk (Factories)	Orderly Transition Scenario (Planned and Diversified Supply) Disorderly Transition Scenario (Sudden Shocks and Regional Disruptions) Hot House World Scenario (High Physical Risk and Global Supply Shocks)

Risk Definition: Heavy rainfall and wind may damage factories, machinery, raw materials, and affect employee safety. It may cause electricity interruptions, production delays, and increased repair/energy costs.

RISK ASSESSMENT

Effect	Effect Description	Impact (1Ð5)	Likelihood (1Ð5)	Risk Severity (Impact × Likelihood)	Time Horizon	Financial Materiality (1Ð5)	Financial Effect Description	Relevant Balance Sheet / Income Statement Item	Potential Financial Effect Amount
Production stoppage, revenue loss, and increased costs	Heavy rain and wind may damage buildings, machines, stocks, and weaken employee safety, disrupting production. May increase environmental risks (floods, leaks).	22		4M	edium-term	20	perational interruptions due to heavy rain/wind may cause approx. 101,602,500 TL potential revenue at risk.	Net Sales	101,602,500 TL

Response Activities and Financial Effects

Independent assessments are conducted on factory risks, with preventive measures applied.
Power backup systems are installed to secure critical operations during outages.
Diversification and adaptation of raw material supplies improve resilience.
Current annual insurance premium for factories and inventory: USD 210,000 (7,421,400 TL).

OPPORTUNITY ARISING FROM RISK

Related Opportunities	Impact Materiality	Financial Materiality	Relevant Balance Sheet / Income Statement Item	Effect on Item
Climate analysis and resilience measures build a "climate-resilient production" identity. Diversified raw material supply reduces price volatility and strengthens supply security.	23		Operating IncomeL	ower insurance costs, reduced operational downtime, decreased expenses

RISK

Priority Material Issues	Related Risk Name/Type	Scenario
Water and Wastewater Management	Chronic Physical Risk Đ Risk of Water Scarcity	1.5Đ2¡C Scenario (Partially Controlled Climate) 3¡C Hot House World Scenario (Uncontrolled Water Stress)

Risk Definition: Our integrated cell and panel production facility located in the Aliağa region of İzmir is situated in a critical area in terms of water stress according to the analyses conducted. Based on the 2050 SSP1 2.6 Optimistic Scenario and the 2050 SSP5 8.5 Pessimistic Scenario, the region where our facility is located is highly sensitive regarding the sustainability of water resources. This situation may lead to water scarcity in the region, causing water supply problems in our production processes.

RISK ASSESSMENT

Effect	Effect Description	Impact (1Đ5)	Likelihood (1Đ5)	Risk Severity (Impact × Likelihood)	Time Horizon	Financial Materiality (1Đ5)	Financial Effect Description	Relevant Balance Sheet / Income Statement Item	Potential Financial Effect Amount
Water scarcity may reduce production capacity and create the need to obtain alternative water sources. This may also cause additional costs. Particularly in our cell production facility, considering the critical role of sufficient water quality and quantity, water scarcity may lead to efficiency losses.	Reduction of production capacity due to water scarcity	32		6	Long-term	30	perational interruptions in the cell production facility due to water scarcity may cause approx. 265,050,000 TL revenue loss.	Net Sales	265,050,000 TL

Response Activities and Financial Effects

The water stress of the locations where our production facilities and sites are located is monitored. No water consumption occurs during panel production. However, with the start of cell production, water use becomes necessary due to process requirements. For this reason, Smart Solar Technologies has initiated footprint studies along with cell production. Planned wafer and ingot investments are also included within the scope of water management. Within this framework, a water management project is being developed to set a water efficiency target for 2030.

RISK

Priority Material Issues	Related Risk Name/Type	Scenario
Business Ethics and Legal Compliance	Transition Risk Ð Reduction or Removal of Public Supports and Economic Incentives Related to Climate Change	Orderly Transition Scenario (1.5¡C World) Disorderly Transition Scenario (Delayed/Sudden Policies) Hot House World Scenario (Uncontrolled, 3¡C+ World)

Risk Definition: In Turkey, within the scope of international commitments and agreements, there are public supports in the renewable energy sector such as Investment Incentives, Energy Support Mechanisms, R&D Supports, Domestic Production Incentives, etc. There is a risk that these supports and incentives may be removed, reduced, or their duration may expire.

RISK ASSESSMENT

Effect	Effect Description	Impact (1Ð5)	Likelihood (1Ð5)	Risk Severity (Impact × Likelihood)	Time Horizon	Financial Materiality (1Ð5)	Financial Effect Description	Relevant Balance Sheet / Income Statement Item	Potential Financial Effect Amount
Increase in costs and financial liabilities	The reduction or removal of public supports and economic incentives related to climate change may increase our companyÕs operating costs, create financial difficulties, and reduce profit margins. It may weaken our competitive power, make project realization risks more likely, and cause our long-term strategies to be revised. In addition, it may lead to a decrease in customersÕ willingness to invest.	51		5M	edium-term	5	Our facilities benefit from project-based incentives. These include investment location allocation, energy support, qualified personnel support, and tax reductions. Currently used incentives may be reduced or removed. However, the decision of investors to make or not make renewable energy power plant (REP) investments depends directly on incentive decisions. If public supports and economic incentives related to renewable energy investments are reduced or removed, it may cause approx. 706,800,000 TL revenue loss.	Net Profit	706,800,000 TL

Response Activities and Financial Effects

We participate in sectoral associations, communicate incentives and sector problems, and share company views with legal authorities. We also continuously advocate in our industrial policy for increasing TurkeyÕs energy independence and prioritizing clean technology production.

The costs of managing this risk are included under General Administrative Expenses.

RISK

Priority Material Issues	Related Risk Name/Type	Scenario
Clean Energy Technology R&D and Innovation	Transition Risk Ð Technology Investment RiskO	rderly Transition Scenario (Rapid Technology Transformation) Disorderly Transition Scenario (Uncertain/Contradictory Technology Development) Hot House World Scenario (Slow Technology Transformation / Adaptation-Oriented)

Risk Definition: With the increase in climate risks and the importance of achieving carbon neutrality targets, technological developments in panel and cell production have accelerated. Regulatory updates open the way for more sustainable products to enter the market. Technology is developing accordingly. In production processes, transition to new and green technologies may require additional investments. This may lead to the risk of technological investments becoming economically obsolete in a shorter period due to rapid technological changes.

RISK ASSESSMENT

Effect	Effect Description	Impact (1Ð5)	Likelihood (1Ð5)	Risk Severity (Impact × Likelihood)	Time Horizon	Financial Materiality (1Ð5)	Financial Effect Description	Relevant Balance Sheet / Income Statement Item	Potential Financial Effect Amount
Early Loss in Investments / Asset Impairment	Due to rapid technological changes, there is a risk that technological investments may complete their economic life earlier than expected, resulting in early impairment and removal from the balance sheet before amortization is completed.	32		6M	edium-term	3I	n 2023 and 2024, panel and cell production facilities were established through investments made in the Aliağa location. Due to the rapid technological transformation in the sector, if the economic life of these investments ends earlier than expected, an early impairment cost of approximately USD 4 million has been calculated. This scenario indicates the possibility that our investments may be exposed to early impairment and be written off in a shorter time frame than anticipated.	Fixed Assets1	41,360,000 TL

Response Activities and Financial Effects

Global technological developments and changes are closely monitored, and technological investment feasibility studies are conducted by taking into account rapid changes in technology. Investments made are chosen in line with future needs and modernization.

Strategic partnerships are established with technology-leading companies. Our strategic partners are located in the Far East and Germany for know-how transfer.

Our company regularly updates technological feasibility studies to mitigate this risk and ensures the sustainability of investments with strategic partnerships.

Economic Performance Indicators

Economic Performance* (TRY)	2022	2023	2024
Direct Economic Value Generated – Net Sales Revenue	3,973,288,754	8,093,257,032	11,677,588,216
Direct Economic Value Distributed	3,558.013,378	6,797,984,701	10,227,377,249
Operating Profit	477,396,355	1,704,169,168	1,362,398,510
Operating Expenses	3,376,697,978	6,444,021,671	10,227,377,249
Wages and Fringe Benefits Paid to Employees1	181,315,400	353,963,030	382,763,381
Taxes Paid	16,798,456	69,512,923	2,667,295
Donations, Sponsorships, and Corporate Responsibility Expenditures	3,093,282	14,630,876	1,471,318
Net Debt	124,858,365	3,034,691,560	5,896,775,661
Return on Equity (ROE)	5%	48%	30%
Total Assets	4,294,263,789	10,550,691,463	17,462,319,741
Total Investment Amount	298,853,539	1,495,650,057	2,705,245,407
EBITDA	553,729,668	1,865,708,766	1,583,465,021
Amount Spent on Environmental Activities and Investments	-	946,782	-2,800,000
Revenue from Climate-Friendly Energy Generation Practices2	3,973,288,754	8,093,257,032	11,677,588,216

**Inflation accounting was applied for the years 2022–2023.*

[1] Included under Operating Expenses.

[2] Due to the nature of our business, all net sales revenue is generated from climate-friendly production practices in the field of renewable energy. Accordingly, the items "Direct Economic Value Generated – Net Sales Revenue" and "Revenue from Climate-Friendly Energy Generation Practices" are reported as equivalent.

Social Performance Indicators

Employment	2022	2023	2024
Total number of employees	744	1,161	1,164
Women	356	559	491
Percentage of women employees	48%	48%	42%
<30	81	133	154
30-50	271	414	325
>50	3	12	12
Men	388	602	673
<30	147	254	276
30-50	230	319	372
>50	11	29	25
Office employee	186	289	294
Women	51	79	81
Men	135	210	213
Field employee	558	872	870
Women	305	480	409
Men	253	392	461
Permanent employment contract	610	1,149	1,164
Women	280	554	491
Men	330	595	673
Temporary employment contract	134	12	0
Women	76	5	0
Men	58	7	0

Employment	2022	2023	2024
Total number of employees with disabilities	19	22	19
Women	8	8	7
Men	11	14	12
Number of employees covered by collective bargaining agreement	-	857	870

Number of employees by education level	2022	2023	2024
No formal education	-	12	6
Primary school	-	324	214
High school	-	557	438
University and above	-	268	506

Parental leave	2022	2023	2024
Number of employees who took parental leave	21	11	16
Women	5	11	16
Men	16	0	0
Number of employees who returned to work after parental leave	21	4	4
Women	5	1	4
Men	16	0	0
Number of employees who have not left the company in the last 12 months after returning from parental leave	21	1	4
Women	5	1	4
Men	16	0	0

Social Performance Indicators

Number of recruitments and turnover	2022	2023	2024
Number of newly hired employees	408	841	502
Office employee – Women	-	81	36
Office employee – Men	-	203	79
Field employee – Women	-	267	127
Field employee – Men	-	290	260
Number of employees who left the company	179	287	433
Office employee – Women	-	24	22
Office employee – Men	-	57	39
Field employee – Women	-	88	192
Field employee – Men	-	118	180

Employee Turnover Rate*	2022	2023	2024
Women	-	20.04%	18.51%
Men	-	29.07%	18.94%
Voluntary turnover	-	17.83%	11.42%

Training Provided to Employees	2022	2023	2024
Total training hours provided to employees	5,229	10,029	18,262
Women	-	5,130	7,841
Men	-	4,899	5,958
Office employee	447	2,143	2,061
Field employee	4,782	7,886	16,201

**The employee turnover rate is calculated by dividing the number of employees who left during the year by the average total number of employees in the same year.*

Training Provided to Employees	2022	2023	2024
Total number of employees who received training	2,449	788	1,280
Women	-	411	553
Men	-	377	727
Office employee	58	136	143
Field employee	2,391	652	1,137
Average training hours per employee			
Office employee – Women	-	6.49	27.62
Field employee – Women	-	8.01	21.80
Office employee – Men	-	6.25	8.15
Field employee – Men	-	6.44	15.49

Social Performance Indicators

Number of employees receiving regular performance evaluations	2022	2023	2024
Total number of employees	-	872	782
Blue-collar – Women	-	480	480
White-collar – Women	-	0	21
Blue-collar – Men	-	392	501
White-collar – Men	-	0	51

Training Types	2024	
	Total Hours (person × hour)	Number of employees
Personal Data Protection Law Training	1,350	675
Information Security Awareness Training	1,011	674
Environmental Management Training	1,345	1,675
Occupational Health and Safety (OHS) Training	18,262	1,280

Ethics Training Programs	Training hours per person	Number of employees
Ethics Training	19.5	13
Social Compliance Lead Auditor Training	32	12

Occupational Health and Safety	2022		2023		2024	
	İzmir-Aliağa[1]	Kocaeli-Gebze	İzmir-Aliağa[2]	Kocaeli-Gebze	İzmir-Aliağa	Kocaeli-Gebze
Number of occupational accidents	-	38	22	48	82	60
Women	-	-	7	-	27	-
Men	-	-	15	-	55	-
Working hours	-	2,204,600	1,147,560	1,246,320	992,156	1,091,908
Women	-	-	-	604,800	426,627	545,954
Men	-	-	-	641,520	565,529	545,954
Number of lost days	-	170	136	352	266	234
Women	-	-	63	71	84	86
Men	-	-	73	281	182	148
Lost time	0	55,620	1,088	2,816	2,128	1,872
Women	0	-	504	568	672	688
Men	0	-	584	2,248	1,456	1,184
Accident frequency rate	-	18.89	19.17	38.51	82.65	54.95
Women	-	-	-	21.49	63.29	54.95
Men	-	-	-	54.56	97.25	54.95
Accident severity rate	-	0.63	0.12	0.28	0.27	0.21
Women	-	-	-	0.12	0.2	0.16
Men	-	-	-	0.44	0.32	0.27

[1] In 2023, the İzmir-Aliağa Integrated Solar Panel and Cell Manufacturing Facility began production.
[2] Data have been calculated from May 2023.

Social Performance Indicators

Occupational Health and Safety	2022		2023		2024	
	İzmir-Aliağa[1]	Kocaeli-Gebze	İzmir-Aliağa[2]	Kocaeli-Gebze	İzmir-Aliağa	Kocaeli-Gebze
Fatal occupational accidents	-	-	0	0	0	0
Women	-	-	0	0	0	0
Men	-	-	0	0	0	0
Number of occupational diseases	-	-	0	0	0	0
Women	-	-	0	0	0	0
Men	-	-	0	0	0	0

[1] In 2023, the İzmir-Aliağa Integrated Solar Panel and Cell Manufacturing Facility began production.
[2] Data have been calculated from May 2023.

Management Structure	2022		2023		2024	
Total number of executives – Senior management[1]	18		20		24	
Women	7	39%	5	25%	7	29%
18-30	0		0		0	
30-50	4		2		4	
50+	3		3		3	
Men	11		15		17	
18-30	0		0		0	
30-50	5		9		8	
50+	6		6		9	
Total number of executives – Mid-level management[2]	63		60		61	
Women	16	25%	13	22%	14	22%
18-30	2		1		2	
30-50	14		12		12	
50+	0		0		0	
Men	47		47		47	
18-30	2		1		4	
30-50	42		41		39	
50+	3		5		4	

[1] Senior management level is given as President, Vice Presidents, and Directors.
[2] Mid-level management level is given as Coordinators, Managers, and Administrators.

Social Performance Indicators

Board of Directors Structure	2023	2024
Total number of board members	11	11
Women	5	5
Men	6	6
Percentage of women board members	45%	45%
18-30	-	0
30-50	-	2
50+	-	9
Number of independent members	4	4
Percentage of independent members	36%	36%

Procurement practices	2022	2023	2024
Domestic supplier ratio (%)	-	81%	69%
Foreign supplier ratio (%)	-	19%	31%
Number of suppliers evaluated using environmental and social criteria1	-	-	10
Percentage of suppliers that agreed on improvements regarding issues identified during the evaluation (%)	-	-	50%
Percentage of suppliers with whom relations were terminated as a result of the evaluation (%)	-	-	0%
Total number of contractors who received business ethics training	-	-	5
Total number of suppliers who received business ethics training	-	-	21

[1] Audits have been carried out under the Smart Supplier Code of Conduct. The Code of Conduct includes social and environmental criteria.

Environmental Performance Indicators

Water Withdrawal by Source	2022	2023	2024
Municipal Water (m^3)	5,166	9,448	80,713

Waste Consumption	2022	2023	2024
Non-Hazardous Waste (kg)	942,248	1,292,803	2,418,992
Hazardous Waste (kg)	11,640	36,191	191,049
Recovered Waste (kg)	953,888	1,328,988	2,610,015
Disposed Waste (kg)	0	6	26
Waste Sent to Temporary Storage (kg)	820	4,512	2,190
Recovered Non-Hazardous Waste (R-coded) (kg)	942,248	1,292,803	2,418,991
Recovered Hazardous Waste (R-coded) (kg)	11,640	36,185	191,024
Disposed Hazardous Waste (D-coded) (kg)	0	6	25*
Other Hazardous Waste Sent to Temporary Storage (kg)	820	4,512	2,190

Fuel Consumption	2022	2023	2024
Diesel Consumption (L)	34,973	38,667	38,646
Gasoline Consumption (L)	62,460	123,202	175,595

** Includes medical waste generated at factories.*

Energy Use	2022	2023	2024
Purchased Conventional Electricity (kWh)	7,569,730	17,044,444	28,114,745
Share of Grid Electricity[1] (%)	100%	100%	100%
Energy Offset with I-RECs (kWh)	7,569,730	17,044,444	28,114,745
Share of Renewable Energy[2] (%)	100%	100%	100%

Greenhouse Gas Emissions	2022	2023	2024
Energy Intensity Ratio[3]	27.43	26.97	37.38
Scope 1 – Direct Emissions (metric tonCO_2e)	257.62	282.46	845.41
Scope 2 – Location-Based Energy-Related Emissions (metric tonCO_2e)	3,934.04	7,499.56	12,426.72
Scope 3 – Other Indirect Emissions (metric tonCO_2e)	24,512.80	37,516.24	58,322.32
Scope 2 Emissions Offset with I-REC Certificates (metric tonCO_2e)	3,934.04	7,499.56	12,426.72
Greenhouse Gas Emissions Intensity Ratio[4]	91.70	59.79	78.70

[1] (Purchased Grid Electricity / Total Energy Consumption) x 100
[2] (Renewable Energy Consumption / Total Energy Consumption) x 100
[3] Calculated based on the ratio of Energy Consumption (MWh) to Sales (MW).
[4] Greenhouse Gas Emissions (tCO_2eq) / Sales (MW)

GRI Content Index

Statement of use	Smart Güneş Enerjisi Teknolojileri Araştırma Geliştirme Üretim San. ve Tic. A.Ş has reported in accordance with the GRI Standards for the period 01.01.2024 - 31.12.2024
GRI 1 used	GRI 1: Foundation 2021

Content Index – Essential Services, GRI Services has verified that the GRI Content Index is in accordance with the reporting requirements of the GRI Standards and that the information presented within the index is clearly disclosed and readily accessible to stakeholders. This assurance was conducted based on the Turkish version of the report.

GRI Standard	Disclosure	Subject Heading	Page Number, Sources And/Or Direct Answers	Additional Information/ Reasons Of Omission
General Disclosures				
GRI 2: General Disclosures 2021	2-1 Organizational details	About the Report, Smart Solar Technologies at a Glance, Ortaklık Yapımız	4-5, 10-12,25-26	
	2-2 Entities included in the organization's sustainability reporting	About the Report, Smart Solar Technologies at a Glance	4, 11	
	2-3 Reporting period, frequency and contact point	About the Report	4-5	
	2-4 Restatements of information		"There has been no change in any information. "	
	2-5 External assurance	About the Report	4-5	
	2-6 Activities, value chain and other business relationships	"Smart Solar Technologies at a Glance, Our Keys to Success: Commitment to Quality and Value Engineering , Our Value Creation Model, Sustainable Supply Chain Management"	10-12, 27-35, 62-64, 106-110	
	2-7 Employees	Employee Rights and Management, Social Performance Indicators	95, 130	
	2-8 Workers who are not employees	Employee Rights and Management, Social Performance Indicators	95, 130	
	2-9 Governance structure and composition	Corporate Management and Organizational Structure	16-24	
	2-10 Nomination and selection of the highest governance body	Corporate Management and Organizational Structure	16-17	

GRI Standard	Disclosure	Subject Heading	Page Number, Sources And/Or Direct Answers	Additional Information/ Reasons Of Omission
General Disclosures				
GRI 2: General Disclosures 2021	2-11 Chair of the highest governance body	Corporate Management and Organizational Structure, Sustainability Governance Structure	16-17, 42	
	2-12 Role of the highest governance body in overseeing the management of impacts	Sustainability Governance Structure	42-43	
	2-13 Delegation of responsibility for managing impacts	Sustainability Governance Structure	42-43	
	2-14 Role of the highest governance body in sustainability reporting	Sustainability Governance Structure	42-43	
	2-15 Conflicts of interest	Business Ethics and Legal Compliance	102-104	
	2-16 Communication of critical concerns	Business Ethics and Legal Compliance	102-104	
	2-17 Collective knowledge of the highest governance body	Sustainability Governance Structure	44-45	
	2-18 Evaluation of the performance of the highest governance body		There is no process in place to evaluate the performance of the company's highest governing structure.	
	2-19 Remuneration policies	Renumeration Policy	96	
	2-20 Process to determine remuneration	Renumeration Policy	96	
	2-21 Annual total compensation ratio	Renumeration Policy	96	
	2-22 Statement on sustainable development strategy	Messages from the Management	6-7	
	2-23 Policy commitments	Our Sustainability Approach	40-41	
	2-24 Embedding policy commitments	Our Sustainability Approach, Sustainability Governance Structure	40-41,42	
	2-25 Processes to remediate negative impacts	Corporate Management and Organizational Structure	22-23	
	2-26 Mechanisms for seeking advice and raising concerns	Business Ethics and Legal Compliance	102-104	
	2-27 Compliance with laws and regulations	Compliance with National and International Legal Regulations	103	

GRI Standard	Disclosure	Subject Heading	Page Number, Sources And/Or Direct Answers	Additional Information/ Reasons Of Omission
General Disclosures				
GRI 2: General Disclosures 2021	2-28 Membership associations	Awards and Achievements	38	
	2-29 Approach to stakeholder engagement	Effective Stakeholder Communications	58	
	2-30 Collective bargaining agreements	Social Dialogue	92	
Material Topics				
GRI 3: Material Topics 2021	3-1 Process to determine material topics	Materiality Analysis	59	
	3-2 List of material topics	Our Material Topics	60	
Economic Performance				
GRI 3: Material Topics 2021	3-3 Management of material topics	Economic performance	65-71	
GRI 201: Economic Performance 2016	201-1 Direct economic value generated and distributed	Investments, Economic performance, Economic Performance Indicators	33-35, 65-66, 129	
	201-2 Financial implications and other risks and opportunities due to climate change	Climate-Based Risks and Opportunities, Responsible and Sustainable Financing, Economic Performance Indicators	50-54, 70-71, 129	
GRI 202: Market Presence 2016	202-1 Ratios of standard entry level wage by gender compared to local minimum wage	Renumeration Policy	96	
GRI 203: Indirect Economic Impacts 2016	203-1 Infrastructure investments and services supported	Investments, Economic performance	33-35, 129	
	203-2 Significant indirect economic impacts	Economic performance	129	
Sustainable Supply Chain				
GRI 3: Material Topics 2021	3-3 Management of material topics	Sustainable Supply Chain Management	106-110	
GRI 204: Procurement Practices 2016	204-1 Proportion of spending on local suppliers	Sustainable Supply Chain Management	106	

GRI Standard	Disclosure	Subject Heading	Page Number, Sources And/Or Direct Answers	Additional Information/ Reasons Of Omission
Sustainable Supply Chain				
GRI 308: Supplier Environmental Assessment 2016	308-1 New suppliers that were screened using environmental criteria	Sustainable Supply Chain Management, Social Performance Indicators	106-110, 134	
	308-2 Negative environmental impacts in the supply chain and actions taken	Sustainable Supply Chain Management	106-110	
GRI 414: Supplier Social Assessment 2016	414-1 New suppliers that were screened using social criteria	Sustainable Supply Chain Management, Social Performance Indicators	106-110, 134	
	414-2 Negative social impacts in the supply chain and actions taken	Sustainable Supply Chain Management	106-110	
Business Ethics and Legal Compliance				
GRI 3: Material Topics 2021	3-3 Management of material topics	Business Ethics and Legal Compliance	102-104	
GRI 205: Anti-corruption 2016	205-1 Operations assessed for risks related to corruption	Business Ethics and Legal Compliance	102-104	
	205-2 Communication and training about anti-corruption policies and procedures	Business Ethics and Legal Compliance, Social Performance Indicators	102-104, 132-134	
	205-3 Confirmed incidents of corruption and actions taken	Business Ethics and Legal Compliance	102	
Circular Economy				
GRI 3: Material Topics 2021	3-3 Management of material topics	Circular Economy	77-82	
GRI 301: Materials 2016	301-1 Materials used by weight or volume	Circular Economy	77-79	
	301-2 Recycled input materials used	Circular Economy	77-79	
	301-3 Reclaimed products and their packaging materials	Circular Economy	77-79	
GRI 306: Waste 2020	306-1 Waste generation and significant waste-related impacts	Waste and Hazardous Materials Management	80-82	
	306-2 Management of significant waste-related impacts	Waste and Hazardous Materials Management	80-82	
	306-3 Waste generated	Waste and Hazardous Materials Management, Environmental Performance Indicators	80-82, 135	
	306-4 Waste diverted from disposal	Waste and Hazardous Materials Management, Environmental Performance Indicators	80-82, 135	
	306-5 Waste directed to disposal	Waste and Hazardous Materials Management, Environmental Performance Indicators	80-82, 135	

GRI Standard	Disclosure	Subject Heading	Page Number, Sources And/Or Direct Answers	Additional Information/ Reasons Of Omission
Energy Management and Emissions				
GRI 3: Material Topics 2021	3-3 Management of material topics	Energy Management and Emissions	85- 87	
GRI 302: Energy 2016	302-1 Energy consumption within the organization	Energy Management and Emissions, Environmental Performance Indicators	85-86,135	
	302-3 Energy intensity	Environmental Performance Indicators	135	
	302-4 Reduction of energy consumption	Energy Management and Emissions	85-86	
	302-5 Reductions in energy requirements of products and services	Energy Management and Emissions	85-86	
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions	Energy Management and Emissions, Environmental Performance Indicators	85- 87, 135	
	305-2 Energy indirect (Scope 2) GHG emissions	Energy Management and Emissions, Environmental Performance Indicators	85- 87, 135	
	305-3 Other indirect (Scope 3) GHG emissions	Energy Management and Emissions, Environmental Performance Indicators	85- 87, 135	
	305-4 GHG emissions intensity	Environmental Performance Indicators	135	
	305-5 Reduction of GHG emissions	Energy Management and Emissions	85- 87	
Water and Wastewater Management				
GRI 3: Material Topics 2021	3-3 Management of material topics	Water and Wastewater Management	83-84	
GRI 303: Water and Effluents 2018	303-1 Interactions with water as a shared resource	Water and Wastewater Management	83-84	
	303-2 Management of water discharge-related impacts	Water and Wastewater Management	83-84	
	303-3 Water withdrawal	Environmental Performance Indicators	135	
	303-5 Water consumption	Water and Wastewater Management	83-84	

GRI Standard	Disclosure	Subject Heading	Page Number, Sources And/Or Direct Answers	Additional Information/ Reasons Of Omission
Biodiversity Protection and Ecological Impacts				
GRI 3: Material Topics 2021	3-3 Management of material topics	Biodiversity Protection and Ecological Impacts	88- 89	
GRI 304: Biodiversity 2016	304-1 Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	Biodiversity Protection and Ecological Impacts	88- 89	
	304-2 Significant impacts of activities, products and services on biodiversity	Biodiversity Protection and Ecological Impacts	88- 89	
	304-3 Habitats protected or restored	Biodiversity Protection and Ecological Impacts	88- 89	
Employee Rights and Management				
GRI 3: Material Topics 2021	3-3 Management of material topics	Employee Rights and Management	95- 96	
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	Social Performance Indicators	131	
	401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	Employee Rights and Management	95- 96	
	401-3 Parental leave	Employee Rights and Management, Social Performance Indicators	96, 130	
Health and Safety				
GRI 3: Material Topics 2021	3-3 Management of material topics	Health and Safety	93-94	
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system	Health and Safety	93-94	
	403-2 Hazard identification, risk assessment, and incident investigation	Health and Safety	93-94	
	403-3 Occupational health services	Health and Safety	93-94	
	403-4 Worker participation, consultation, and communication on occupational health and safety	Health and Safety	93-94	
	403-5 Worker training on occupational health and safety	Health and Safety, Social Performance Indicators	93-94, 132	

GRI Standard	Disclosure	Subject Heading	Page Number, Sources And/Or Direct Answers	Additional Information/ Reasons Of Omission
Health and Safety				
GRI 403: Occupational Health and Safety 2018	403-6 Promotion of worker health	Health and Safety	93-94	
	403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	Health and Safety	93-94	
	403-8 Workers covered by an occupational health and safety management system	Health and Safety	93-94	
	403-9 Work-related injuries	Health and Safety, Social Performance Indicators	95, 132	
	403-10 Work-related ill health	Health and Safety, Social Performance Indicators	95, 133	
Career Management and Training				
GRI 3: Material Topics 2021	3-3 Management of material topics	Career Management and Training	99- 101	
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	Social Performance Indicators	131	
	404-2 Programs for upgrading employee skills and transition assistance programs	Career Management and Training	99- 101	
	404-3 Percentage of employees receiving regular performance and career development reviews	Career Management and Training, Social Performance Indicators	100, 132	
Diversity, Equality, and Inclusion				
GRI 3: Material Topics 2021	3-3 Management of material topics	Diversity, Equality, and Inclusion	97-98	
GRI 405: Diversity and Equal Opportunity 2016	405-1 Diversity of governance bodies and employees	Diversity, Equality, and Inclusion, Social Performance Indicators	97-98, 130-134	
	405-2 Ratio of basic salary and remuneration of women to men	Renumeration Policy, Diversity, Equality, and Inclusion	96,97	
GRI 406: Non-discrimination 2016	406-1 Incidents of discrimination and corrective actions taken	Diversity, Equality, and Inclusion	97-98	

GRI Standard	Disclosure	Subject Heading	Page Number, Sources And/Or Direct Answers	Additional Information/ Reasons Of Omission
Human Rights				
GRI 3: Material Topics 2021	3-3 Management of material topics	Human Rights	90-92	
GRI 407: Freedom of Association and Collective Bargaining 2016	407-1 Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	Human Rights	90-92	
GRI 408: Child Labor 2016	408-1 Operations and suppliers at significant risk for incidents of child labor	Child Labor and Forced Labor , Sustainable Supply Chain Management	91, 107-109	
GRI 409: Forced or Compulsory Labor 2016	409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor	Child Labor and Forced Labor , Sustainable Supply Chain Management	91, 107-109	
Corporate Social Responsibility Projects				
GRI 3: Material Topics 2021	3-3 Management of material topics	Corporate Social Responsibility Projects	111-112	
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	Biodiversity Protection and Ecological Impacts, Corporate Social Responsibility Projects	89, 112	
	413-2 Operations with significant actual and potential negative impacts on local communities	Biodiversity Protection and Ecological Impacts, Corporate Social Responsibility Projects	89, 112	
Customer Satisfaction and Responsible Marketing				
GRI 3: Material Topics 2021	3-3 Management of material topics	Customer Satisfaction and Responsible Marketing	105	
GRI 417: Marketing and Labeling 2016	417-1 Requirements for product and service information and labeling	Customer Satisfaction and Responsible Marketing	105	
Digitalization and Data Security				
GRI 3: Material Topics 2021	3-3 Management of material topics	Digitalization and Data Security	72-74	
Clean Energy Technology R&D and Innovation				
GRI 3: Material Topics 2021	3-3 Management of material topics	Clean Energy Technology R&D and Innovation	75-76	

TSRS 2 Compliance Table

Relevant Standard Section	Sub-Section	Standard Number	Description	Related Report Section	Page Number
Governance	27	a - i	How responsibilities and authorities related to sustainability are linked with job descriptions, policies, and roles of relevant organizational units/individuals.	Sustainability Governance Structure	42
		a - ii	Whether organizational units/individuals have the skills to oversee sustainability strategies, or the decision processes on how to develop these skills.	Sustainability Governance Structure	42
		a - iii	How frequently and through which methods (reports, briefings, etc.) organizational units/individuals are informed about sustainability risks/opportunities.	Sustainability Governance Structure	42
		a - iv	How sustainability factors are considered in strategy, risk management, and major business decisions.	Sustainability Governance Structure	42
		a- v	Whether sustainability performance metrics are included in the pay policy, and how they are included.	Human Capital – Employee Rights and Management – Remuneration Policy	96
		b	Clarity and implementation of board and senior management duties in governance processes, controls, and procedures used to monitor, manage, and supervise risks and opportunities.	Climate-Based Risks and Opportunities	50
Strategy	29	a	Sustainability-related risks and opportunities that are reasonably expected to affect the company's future financial adequacy are identified.	Climate-Based Risks and Opportunities	50
		b	The current and projected impacts of sustainability-related risks and opportunities on the company's business model and value chain have been evaluated.	Our Value Creation Model	62
		b	The impact of sustainability-related risks and opportunities on the company's strategy and decision-making mechanism has been analyzed.	Climate-Based Risks and Opportunities	62
		c	The impacts of risks and opportunities on the company's financial position, financial performance, and cash flows, as well as their projected effects on the company's financial position, financial performance, and cash flows in the short, medium, and long term, have been analyzed.	Annex I – Climate-Based Risk Analysis Table – TSRS 1 E5 Transition Exemption	50-55
		d	The resilience of the company's strategy and business model against the relevant sustainability-related risks has been assessed.	Annex I – Climate-Based Risk Analysis Table	114-128
	Sustainability risks and opportunities	30,31	The company has identified sustainability-related risks and opportunities that may affect its financial adequacy, explained the time horizons in which their impacts are expected to occur (short, medium, or long term), how these horizons are defined, and how they relate to the company's strategic planning periods.	Section 3. 3 Climate-Based Risks and Opportunities	51-54 114-128
	Business Model and Value Chain	32	The business model and value chain are defined.	Our Value Creation Model	63-64
			The relationship between the value chain and the material topics has been established, and the associated risks and opportunities have been identified.	Section 4. Our Value Creation Model	63-64

Relevant Standard Section	Sub-Section	Standard Number	Description	Related Report Section	Page Number
Strategy	Strategy and Decision-Making Process	33	The impacts of sustainability risks and opportunities on strategy and decision-making processes have been explained.	Annex I – Climate-Based Risk Analysis Table	114-128
	Financial Position, Financial Performance	34	Information has been disclosed to ensure understanding of the following: (a) The current financial impacts of sustainability risks and opportunities, (b) Expectations regarding their impact on financial position in the future (short, medium, and long term).	Annex I – Climate-Based Risk Analysis Table TSRS 1 E5 Transition Exemption	114-128
		35	Quantitative and qualitative information has been provided on the following: (a) Current period impacts, (b) Items carrying a significant risk of adjustment, (c) Expected impacts (e.g., investment plans, financing sources), (d) Possible changes in financial performance and cash flows.	Annex I – Climate-Based Risk Analysis Table TSRS 1 E5 Transition Exemption	Annex I – Climate-Based Risk Analysis Table
	Resilience	41	A description of a qualitative, and where possible quantitative, assessment of the resilience of the business strategy and business model to sustainability-related risks (including how the assessment is conducted and the time frame of the assessment).	Annex I – Climate-Based Risk Analysis Table	50-54 114-128
Risk Management		43	Whether the processes for identifying, assessing, prioritizing, and monitoring sustainability-related risks and opportunities are integrated into the company's overall risk management process.	Climate-Based Risks and Opportunities - Risk Assessment Process and Scenario Analysis	50-54
		44	(a) Risk Identification and Monitoring Processes: The company should describe how it identifies, assesses, prioritizes, and monitors sustainability-related risks. In particular: (i) Which data sources, parameters, and scopes are used? (ii) Is scenario analysis applied, and if so, how? (iii) How are the nature, likelihood, and magnitude of impacts assessed? (Including qualitative and quantitative criteria) (iv) How are these risks prioritized compared to other types of risks? (v) How are these risks monitored? (vi) Have there been any changes to the processes compared to the previous period, and if so, what are they? (b) Opportunity Identification and Monitoring Processes: Similarly, the company should describe how it identifies, assesses, prioritizes, and monitors sustainability-related opportunities. (c) Integration: It should be explained how all these risk and opportunity processes: Are integrated into the overall risk management process Inform this overall process (including procedures and policies, internal control, and internal audit activities, etc.)	Section 3. 3 Climate-Based Risks and Opportunities - Risk Assessment Process and Scenario Analysis	50-54

Relevant Standard Section	Sub-Section	Standard Number	Description	Related Report Section	Page Number
Metrics and Targets		46b -i	It is checked whether metrics used to measure and monitor sustainability-related risks and opportunities are defined.	I. Smart Solar Technologies at a Glance – Operational Metrics	13-84-86
		46b -ii	Monitoring the performance related to the sustainability risk or opportunity, including progress towards the company's own targets as well as regulatory requirements, and reviewing the associated metrics.	I. Smart Solar Technologies at a Glance – Operational Metrics	13-84-86
		49,55	Metrics obtained from sources other than TSRS (e.g., GRI, SASB, ESRS, CDSB, etc.) should be explained, and their source identified. They are also expected to be referenced in the report.	I. Smart Solar Technologies at a Glance – Operational Metrics	13-84-86
		50	The technical specifications and suitability of the metric developed by the company.	I. Smart Solar Technologies at a Glance – Operational Metrics	13-84-86
		51,52,53	The alignment of the established targets with science-based SMART criteria (e.g., clear, specific, time-bound, spatial, performance-oriented, qualitative or quantitative, etc.) is reviewed.	I. Smart Solar Technologies at a Glance – Operational Metrics	13-84-86
Measurement Uncertainty		78a-b	If applicable, the amounts of high-level measurement uncertainties (uncertainties in sustainability-related financial disclosures) should be explained, including the sources of measurement uncertainty—such as the dependency of the amount on the outcome of a future event, a measurement technique, or the availability and quality of data within the company's value chain—and the assumptions, estimates, and judgments applied by the company in measuring the amount.	1. About the Report – Transition Exemption	6-7
Governance	6a	i	The clarity of the responsibilities of the Board of Directors and associated organizational units regarding climate-related risks and opportunities, as defined in their roles, authorities, job descriptions, and relevant policies.	IV. Corporate Governance and Organizational Structure Sustainability Governance Structure	16-24 42-48
		ii	Whether these individuals or organizational units have the knowledge and competence to oversee strategies related to climate-related risks and opportunities, and how decisions are made regarding the development of such competencies.	IV. Corporate Governance and Organizational Structure Sustainability Governance Structure	16-24 42-48
		iii	How these individuals or organizational units are informed about climate-related risks and opportunities, and the frequency of such communication.	IV. Corporate Governance and Organizational Structure I. Sustainability Governance Structure	16-24 42-48
		iv	How these individuals or organizational units consider climate-related issues in strategy development, major transaction decisions, risk management, and policy processes.	IV. Corporate Governance and Organizational Structure I. Sustainability Governance Structure	16-24 42-48
		v	How climate-related targets are set and how progress toward these targets is monitored, including whether and how performance metrics are incorporated into remuneration policies.	IV. Corporate Governance and Organizational Structure I. Sustainability Governance Structure	16-24 42-48
	6b	i	Whether these responsibilities are delegated to a specific management-level position or committee, and how that position/committee is overseen.	IV. Corporate Governance and Organizational Structure I. Sustainability Governance Structure	16-24 42-48
		ii	Whether management uses controls and procedures for these matters, and if so, how they are integrated with other internal functions.	IV. Corporate Governance and Organizational Structure I.Sustainability Governance Structure	16-24 42-48

Relevant Standard Section	Sub-Section	Standard Number	Description	Related Report Section	Page Number
Strategy	9	a	The identification of climate-related risks and opportunities that can reasonably be expected to affect the company's future financial capacity.	Climate-Based Risks and Opportunities	50-54 114-128
		b	The current and anticipated impacts of these climate-related risks and opportunities on the company's business model and value chain.	Climate-Based Risks and Opportunities	50-54 114-128
		c	The effects of these climate-related risks and opportunities on the company's strategy and decision-making processes, including information on the climate-related transition plan.	Climate-Based Risks and Opportunities	50-54 114-128
		d	An explanation of how climate-related risks and opportunities are integrated into financial planning, including their current and expected impacts on financial position, performance, and cash flows over the short, medium, and long term.	Climate-Based Risks and Opportunities- E5 Transition Exemption	50-54 114-128
Climate-Related Risks and Opportunities	9	a b c d	The identification of climate-related risks and opportunities reasonably expected to affect future financial capacity, the assessment of these risks as physical or transition risks, the determination of the time horizons (short, medium, or long term) for each risk and opportunity, and an explanation of how these time horizons relate to strategic planning periods.	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis	50-54 114-128
Business Model and Value Chain	13	a b	The positioning and intensity of climate-related risks and opportunities within the company's business model and value chain.	Our Value Creation Model	62
Strategy and Decision-Making	14	a - i	Current and anticipated changes in the business model to address climate-related risks and opportunities, including resource allocation.	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis	50-54 114-128
		a - ii	Current and planned direct mitigation and adaptation activities.	Climate-Based Risks and Opportunities	114-128
		a - iii	Current and planned indirect mitigation and adaptation activities.	Risk Assessment Process and Scenario Analysis - E5 Transition Exemption	114-128
		a - iv	The climate-related transition plan.	Climate-Based Risks and Opportunities	55-57
		a - v	How the company plans to achieve its climate-related targets.	Risk Assessment Process and Scenario Analysis - E5 Transition Exemption	55-57
Financial Position, Financial Performance, and Cash Flows	15	a	Current impacts of climate-related risks and opportunities on the company's financial position, financial performance, and cash flows.(current impacts)	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis - E5 Transition Exemption	50-54 114-128
		b	Projected impacts of climate-related risks and opportunities on the company's financial position, financial performance, and cash flows over the short, medium, and long term.(projected impacts)	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis- E5 Transition Exemption	50-54 114-128

Relevant Standard Section	Sub-Section	Standard Number	Description	Related Report Section	Page Number
Financial Position, Financial Performance, and Cash Flows	16	a	Current Impacts: The reflection of climate risks/opportunities on the current period financial statements.	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis- E5 Transition Exemption	50-54 114-128
		b	Critical Accounting Risk: Risks that may require significant adjustments to carrying amounts in the next period.	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis E5 Transition Exemption	50-54 114-128
		c	Strategic Expectations: The time-based effects of investments, financing, and business model changes on the financial position.	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis - E5 Transition Exemption	50-54 114-128
		d	Performance Projection: The impact of low-carbon transition, climate-related costs, and adaptation measures on future cash flows.	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis - E5 Transition Exemption	50-54 114-128
	21	a	If the company decides not to provide quantitative information on the current or projected financial impacts of a climate-related risk or opportunity, an explanation of why quantitative information is not provided.	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis- E5 Transition Exemption	50-54 114-128
Climate Resilience	22	a	Assessment of climate resilience and its scope.	Risk Assessment Process and Scenario Analysis	50-54
		b	Climate-related scenario analysis.	Risk Assessment Process and Scenario Analysis	50-54
Risk Management	25	a-i	Inputs and parameters used by the company (e.g., data sources and information on the scope of operations included in the processes).	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis	50-54 114-128
		a-ii	Whether it uses climate-related scenario analysis to identify climate-related risks	Risk Assessment Process and Scenario Analysis	50-54
		a-iii	Classification of the effects of risks, how their effects and magnitudes are assessed	Risk Assessment Process and Scenario Analysis	50-54
		a-iv	Whether and how the company prioritizes climate-related risks compared to other types of risks.	Risk Assessment Process and Scenario Analysis	50-54
		a-v	How the company monitors climate-related risks.	Risk Assessment Process and Scenario Analysis	50-54
		c	The relationship between climate-related risks and opportunities and overall risk management processes.	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis	50-54 114-128

Relevant Standard Section	Sub-Section	Standard Number	Description	Related Report Section	Page Number
Climate-Related Metrics	29	a - i	Scope 1 Greenhouse Gas (GHG) Emissions	IV. Environmental Performance Indicators	135
		a - i a- v	Scope 2 GHG Emissions: Total and Location-based	IV. Environmental Performance Indicators	135
		a - i	Scope 3 GHG Emissions: • Purchased goods and service • Capital goods • Fuel- and energy-related activities not included in Scope 1 or Scope 2 • Upstream transportation and distribution • Waste generated in operations • Business travel • Employee commuting • Upstream leased assets • Downstream transportation and distribution • Processing of sold products • Use of sold products • End-of-life treatment of sold products • Downstream leased assets • Franchises • Investments	IV. Environmental Performance Indicators	135
		a - ii	Greenhouse Gas Protocol: Compliance with the Corporate Accounting and Reporting Standard (2004)	C4 Exemption	
		a - iii	Greenhouse Gas Measurement Approaches: • Applied standards • Emission factors used • Greenhouse gas measurement results • GHG calculation methodology • Assumptions applied in the calculations • Excluded items from the calculations and the rationale	GHG Verification Report	145
		b	Climate-related Transition Risks: • Vulnerable assets • Quantity and percentage of business operations affected	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis	50-54 114-128
		c	Climate-related Physical Risks: • Vulnerable assets • Quantity and percentage of business operations affected	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis	50-54 114-128
		d	Climate-related Opportunities: Assets aligned with opportunities Business operations and their percentage	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis	50-54 114-128

Relevant Standard Section	Sub-Section	Standard Number	Description	Related Report Section	Page Number
Climate-Related Metrics	29	e	Capital Allocation: Capital and investments made to address climate-related risks and opportunities	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis – E5 Transition Exemption	50-54 114-128
		f - i,ii	Internal Carbon Pricing: • Carbon pricing, investment, and scenario analysis • Price per metric ton of greenhouse gas emissions	Climate-Based Risks and Opportunities Risk Assessment Process and Scenario Analysis – E5 Transition Exemption	50-54 114-128
		g - i,ii	Remuneration: • Inclusion of climate-related considerations in executive compensation • Percentage of senior executive compensation reflected in the financial statements for the current period related to climate considerations	Pay Policy	96
Climate-Related Targets	33		Comprehensive assessment of climate-related quantitative and qualitative targets (purpose, timeframe, quantitative and qualitative aspects, etc.)	Our Sustainability Goals	55-57
	34		Methodology for monitoring progress toward a target	Our Sustainability Goals	55-57
	36		arget scope, included categories, decarbonization approach, offsetting, and carbon credit practices	Our Sustainability Goals	55-57

Verification Statements

GHG Verification Statement

CERTIFICATION & INSPECTION

Greenhouse Gas Verification Statement

Sera Gazı Doğrulama Beyanı

SMART GÜNEŞ ENERJİSİ TEKNOLOJİLERİ ARAŞTIRMA GELİŞTİRME ÜRETİM SANAYİ VE TİC. A.Ş.

Organizational Boundaries / Organizasyonel Sınırlar

Merkez Ofis - Rüzgarlıbahçe Mah., Feragat Sk. Energy Plaza No:2, 34805 Beykoz/İstanbul
Gebze Production Facility - GOSB Tembelova Alanı, Cadde 3200, N3207, Gebze/ Kocaeli
Dilovası Production Facility - Çerkeşli OSB Mahallesi İMES 10. Cad., No:3 Dilovası/Kocaeli
İzmir Production Facility - Aliağa OSB, Çoraklar Mah., 5024. Sk., No:10 Aliağa/İzmir

The Greenhouse Gas emissions inventory has been verified to meet the standard requirements specified below according to ISO 14064-3:2019 / *Sera Gazı emisyonları envanterinin, ISO 14064-3:2019'a göre aşağıda belirtilen standart gerekliliklerini karşıladığı doğrulanmıştır.*

GHG PROTOCOL

Scope 1- Direct emissions / *Doğrudan emisyonlar*	845,41	t CO_2 eq
Scope 2- Location based purchased energy emissions / *Lokasyon bazlı satın alınan enerji emisyonlar*	12.426,72	t CO_2 eq
Scope 3- Other indirect emissions / *Diğer dolaylı emisyonlar*	58.322,32	t CO_2 eq
Total Location Based Emissions / *Toplam Lokasyon Bazlı Emisyonlar*	**71.594,45**	**t CO_2 eq**
Total Market Based Emissions / *Toplam Market Bazlı Emisyonlar*	**57.875,77**	**t CO_2 eq**
Biogenic Emissions / *Biyojenik Emisyonlar*	-	t CO_2 eq
Purchased renewable energy emission allowance / *Satın alınan yenilenebilir enerji emisyon karşılığı*	12.426,72	t CO_2 eq
Scope 2- Market based purchased energy emissions / *Market bazlı satın alınan enerji emisyonlar*	**0**	**t CO_2 eq**

Renewable energy references / *Yenilenebilir enerji referansları:*

I-Rec Reference Number Gebze Production Facility - 175627 28-39207472
I-Rec Reference Number Dilovası Production Facility - 237227 05-35224742
I-Rec Reference Number İzmir Production Facility - 279666 58-34531978
I-Rec Reference Number Head Office - 118959 38-26126145-51450030-17505648–
302882 59-10411601-25479314-22749422

Credits from GHG Scheme / Satın alınan krediler	-	t CO_2 eq
Credits references / Kredi referansları		

Level of Assurance : Reasonable / Makul
Reporting Period : 01.01. 2024 – 31.12. 2024
Verification Report Date : 22.07.2025
Statement No : SG-GNL-216 / 2024

Approved by / Onaylayan
Okay Kayhanlı – Genel Müdür

Carbon Verified Company

QSI Belgelendirme, Muayene ve Test Hizmetleri Ltd. Şti.
Beytepe Mah. 5397 Sokak, Mira Ofis B1 Blok D:2, Çankaya – Ankara
Tel : +90 312 472 60 67 Faks : +90 312 472 60 68
E-mail: info@qsi.com.tr Web: www.qsi.com.tr

PRO.13/F13_GHGREV.04/26.03.2025

ISO 14064 Verification Statement

CERTIFICATION & INSPECTION

Greenhouse Gas Verification Statement

Sera Gazı Doğrulama Beyanı

SMART GÜNEŞ ENERJİSİ TEKNOLOJİLERİ ARAŞTIRMA GELİŞTİRME ÜRETİM SANAYİ VE TİC. A.Ş.

Organizational Boundaries / Organizasyonel Sınırlar

Merkez Ofis - Rüzgarlıbahçe Mah., Feragat Sk. Energy Plaza No:2, 34805 Beykoz/İstanbul
Gebze Production Facility - GOSB Tembelova Alanı, Cadde 3200, N3207, Gebze/ Kocaeli
Dilovası Production Facility - Çerkeşli OSB Mahallesi İMES 10. Cad., No:3 Dilovası/Kocaeli
İzmir Production Facility - Aliağa OSB, Çoraklar Mah., 5024. Sk., No:10 Aliağa/İzmir

The Greenhouse Gas emissions inventory has been verified to meet the standard requirements specified below according to ISO 14064-3:2019 / *Sera Gazı emisyonları envanterinin, ISO 14064-3:2019'a göre aşağıda belirtilen standart gerekliliklerini karşıladığı doğrulanmıştır.*

ISO 14064-1:2018

Category 1- Direct emissions / *Doğrudan emisyonlar*	845,41	t CO_2 eq
Category 2- Purchased energy emissions (Location based) / *Satın alınan enerji emisyonlar (Lokasyon bazlı)*	12.426,72	t CO_2 eq
Category 3- Emissions from transportation / *Ulaşım kaynaklı emisyonlar*	16.667,77	t CO_2 eq
Category 4- Emissions from products, service used / *Kullanılan ürün - hizmet kaynaklı emisyonlar*	40.371,56	t CO_2 eq
Category 5- Emissions from associated with the use of the product / *Ürün kullanımı kaynaklı em.*	270,86	t CO_2 eq
Category 6- Other Emissions / *Diğer emisyonlar*	1.012,13	t CO_2 eq
Total Location Based Emissions / *Toplam Lokasyon Bazlı Emisyonlar*	**71.594,45**	**t CO_2 eq**
Total Market Based Emissions / *Toplam Market Bazlı Emisyonlar*	**59.167,73**	**t CO_2 eq**
Biogenic Emissions / *Biyojenik Emisyonlar*	-	t CO_2 eq
Purchased renewable energy emission allowance / *Satın alınan yenilenebilir enerji emisyon karşılığı*	12.426,72	t CO_2 eq
Category 2- Purchased energy emissions (Market based) / *Satın alınan enerji emisyonlar (Market bazlı)*	0	t CO_2 eq

Renewable energy references / *Yenilenebilir enerji referansları:*

I-Rec Reference Number Gebze Production Facility - 175627 28-39207472
I-Rec Reference Number Dilovası Production Facility - 237227 05-35224742
I-Rec Reference Number İzmir Production Facility - 279666 58-34531978
I-Rec Reference Number Head Office - 118959 38-26126145-51450030-17505648–
302882 59-10411601-25479314-22749422

Credits from GHG Scheme / Satın alınan krediler	-	t CO_2 eq
Credits references / Kredi referansları		

Level of Assurance : Reasonable / Makul
Reporting Period : 01.01. 2024 – 31.12. 2024
Verification Report Date : 22.07.2025
Statement No : SG-GNL-216 / 2024

Approved by / Onaylayan
Okay Kayhanlı – Genel Müdür

TÜRKAK Carbon Verified Company

QSI Belgelendirme, Muayene ve Test Hizmetleri Ltd. Şti.
Beytepe Mah. 5397 Sokak, Mira Ofis B1 Blok D:2, Çankaya – Ankara
Tel : +90 312 472 60 67 Faks : +90 312 472 60 68
E-mail: info@qsi.com.tr Web: www.qsi.com.tr

PRO.13/F13/REV.04/26.03.2025

Appendix 1. Limited Assurance Report under TSRS

Convenience Translation of Auditor's Limited Assurance Report Originally Issued in Turkish

LIMITED ASSURANCE REPORT OF THE INDEPENDENT AUDITOR ON THE INFORMATION PRESENTED UNDER THE TURKISH SUSTAINABILITY REPORTING STANDARDS OF SMART GÜNEŞ ENERJİSİ TEKNOLOJİLERİ AR-GE ÜRETİM SANAYİ ANONİM ŞİRKETİ AND ITS SUBSIDIARIES

Eren Bağımsız Denetim A.Ş.
Maslak, Eski Büyükdere Cad.
No.14 Kat: 10
34396 Sarıyer/İstanbul,Turkey

T + 90 212 373 00 00
F + 90 212 291 77 97
www.grantthornton.com.tr

To the General Assembly of Smart Güneş Enerjisi Teknolojileri Ar-Ge Üretim Sanayi A.Ş.

We have been assigned to perform limited assurance engagement on the information ("Sustainability Information") presented in accordance with the Türkiye Sustainability Reporting Standards 1 "*General Requirements for Disclosure of Sustainability-related Financial Information*" and Türkiye Sustainability Reporting Standards 2 "*Climate-Related Disclosures*" Smart Güneş Enerjisi Teknolojileri Ar-Ge Üretim A.Ş. ("Company" or "Smart") and its subsidiaries ("Group") for the year ended December 31, 2024.

Our assurance engagement does not include the information related to prior periods and other information associated with Sustainability Information (including any images, audio files, website links or embedded videos).

Limited Assurance Conclusion

Based on the procedures performed and the evidence obtained, as summarized under the section "Summary of the Work we Performed as the Basis for our Assurance Conclusion", nothing has come to our attention that causes us to believe that Company's Sustainability Information for the year ending December 31, 2024, has not been prepared in accordance with the Turkiye Sustainability Reporting Standards ("TSRS"), as published by the Public Oversight Accounting and Auditing Standards Authority of Turkiye ("POA") in the Official Gazette dated December 29, 2023 and numbered 32414(M). We do not provide any assurance conclusion regarding the information related to prior periods and any other information associated with the Sustainability Information (including any images, audio files, website links or embedded videos).

Inherent Limitations in the Preparation of Sustainability Information

The Sustainability Information is subject to inherent uncertainties due to lack of scientific and economic information. The inadequacy of scientific data leads to uncertainties in the calculation of greenhouse gas emissions. Additionally, due to the lack of data regarding the likelihood, frequency, and impacts of potential physical and transition climate risks, the Sustainability Information is subject to uncertainties related to climate

Responsibilities of Management and Those Charged with Governance Regarding Sustainability Information

The Company's Management is responsible for:

Preparing the Sustainability Information in accordance with the principles of Türkiye Sustainability Reporting Standards.

- Designing, implementing and maintaining internal control over information relevant to the preparation of the Sustainability Information that is free from material misstatement, whether due to fraud or error.
- Additionally, the Company Management is responsible for selecting and implementing appropriate sustainability reporting methodologies as well as making reasonable assumptions and suitable estimates.

Responsibilities of the Independent Auditor Regarding the Limited Assurance of Sustainability Information

We are responsible for the following:

- Planning and performing the engagement to obtain limited assurance about whether the Sustainability Information is free from material misstatement, whether due to fraud or error.
- Forming an independent conclusion, based on the procedures we have performed and the evidence we have obtained; and
- Reporting our conclusion to the Company Management

Since we are responsible for providing an independent conclusion on the Sustainability Information prepared by management, we are not permitted to be involved in the preparation process of the Sustainability Information in order to ensure that our independence is not compromised.

Professional Standards Applied

We performed a limited assurance engagement in accordance with the Standard on Assurance Engagements 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" and in respect of greenhouse gas emissions included in the Sustainability Information, in accordance with Standard on Assurance Engagements "3410 Assurance Engagements on Greenhouse Gas Statements", issued by POA.

Independence and Quality Control

We have complied with the independence and other ethical requirements of the Code of Ethics for Independent Auditors, issued by the POA, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour. Our firm applies Standard on Quality Management 1 and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards, and applicable legal and regulatory requirements. Our work was carried out by an independent and multidisciplinary team including assurance practitioners, sustainability and risk management specialists. We have used the work of our expert team to assess the reliability of the information and assumptions related to the Company's climate and sustainability-related risks and opportunities. We remain solely responsible for our assurance conclusion

Summary of the Work we Performed as the Basis for our Assurance Conclusion

We are required to plan and perform our work to address the areas where we have identified that a material misstatement of the Sustainability Information is likely to arise. The procedures we performed were based on our professional judgment. In carrying out our limited assurance engagement on the Sustainability Information,

- Face-to-face and online interviews were conducted with the Company's key senior personnel to understand the processes in place for obtaining the Sustainability Information for the reporting period.
- The Company's internal documentation was used to review and assess the sustainability related information.
- The disclosure and presentation of sustainability-related information have been evaluated.
- Through inquiries, we obtained an understanding of Company's control environment and information systems relevant to the preparation of the Sustainability Information. However, we did not evaluate the design of control activities, we did not obtain evidence about their implementation, or we did not test their operating effectiveness.
- The appropriateness and consistency of the Company's estimation development methods were evaluated. However, our procedures did not include testing the data on which the estimates are based or separately developing our own estimates against which to evaluate Company's estimates.

The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had we performed a reasonable assurance engagement

Eren Bağımsız Denetim A.Ş.
Member Firm of GRANT THORNTON International

Ömer Cihan Caymaz, SMMM
Partner

15 August 2025
İstanbul, Türkiye

This covers the standalone TSRS-Compliant report presented separately and is shared in this TSRS-Compliant Integrated Sustainability Report for informational purposes.

Smart
SOLAR TECHNOLOGIES

Contact Information

Smart Güneş Teknolojileri Headquarter
Rüzgarlıbahçe Mah., Feragat Sk. Energy
Plaza No:2, 34805 Beykoz/İstanbul
T +90 (216) 225 72 00 F 0850 225 7209
info@smartsolar.com.tr
www.smartsolar.com.tr