

SMART SOLAR TECHNOLOGIES

30.06.2025



Production









E-Mobility **Solutions**



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Vertical Integration & Competitive Strategy

We are active in large parts of the PV value chain.

We believe in future of solar energy and we are expanding the vertical integration with the wafer & ingot manufacturing in 2025.

INVESTMENT		(a)
EPC		
PV M	DDULE MANUFACTURING	
CELL	MANUFACTURING	
WAFE	R MANUFACTURING	
+ ING	OT MANUFACTURING	





Smart Solar Technologies In Numbers

1,200 MW TR, Gebze | 1,200 MW TR, Aliağa | 1,500 MW EU (2026)
2,400 MW Total Module Production Capacity

1,400 MW TR, Aliağa (2025) I **1,500 MW** EU (2027) **800 MW Total Cell Production Capacity**

1,500 MW TR, Aliağa **Wafer Production Capacity**





Smart Solar Technologies In Numbers





300 MW+

Solar Power Plant Investment



1,500 MW+

Engineering, Procurement & Construction (EPC)



Smart Solar Technologies In Numbers



100+ Distributors



110+ E-Charge Sockets



1,100+ Employees



42% Women Employees



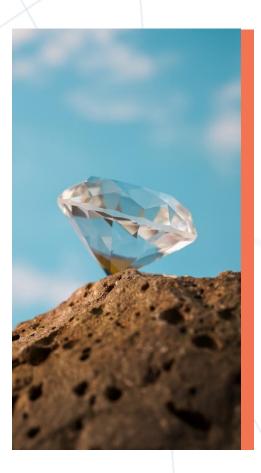




Guiding Principles



QUALITY MANAGEMENT



VALUE ENGINEERING





INVESTMENT OF KINDNESS







Awards & Accomplishments









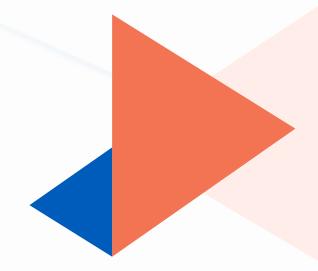




Evaluation made by **JCR Eurasia Rating Inc.** result; Smart Solar Technologies' Long-Term National Institution Credit Rating was determined as "**A - (tr)**", and the Short-Term National Institution Credit Rating was determined as "**J1 (tr) / (Stable Outlook)**".



As Smart Solar Technologies, we received a B rating in the **Carbon Disclosure Project (CDP)** Climate Change Program, which we participated in for the first time, evaluating our sustainability strategies according to global standards and demonstrating our commitment to transparency.





SUSTAINABILITY INDEX





TÜRKİYE ODALAR VE BORSALAR BİRLİĞİ

YERLİ MALI BELGESİ





Belgenin Verilis Tarihi: 16/01/2025

Belgenin Geçerlilik Tarihi: 16/01/2026

Belge No: 20251210366137756

Firma Unvanı: SMART GÜNEŞ ENERJİSİ TEKNOLOJİLERİ ARAŞTIRMA GELİSTİRME ÜRETİM SANAYİ VE TİCARET ANONİM ŞİRKETİ ALİAĞA ŞUBESİ

Adres: ÇORAKLAR Mah. 5024 Sok. NO:10/3

Telefon:

Geçerlilik Süre Sonu: 13/06/2026

Vergi Dairesi / No: Beykoz V.D. / 7720708996 MERSIS No: 077207089600004

Ticaret Sicil No: ALÍAGA-5965 Oda Sicil No: 26293

Ürün Adı: Fotovoltaik güneş paneli

Ürün Özel Adı: FOTOVOLTAİK GÜNEŞ PANELİ (Hücre girdisinin üretiminde kullanılan wafer ithaldir)

(PRODCOM/GTIP): 26.11.22,40.00

- CÍNS :Backsheetli Güneş Paneli - MARKA :Phono Solar, Smart Solar, Shems Solar, Verde Solar, Solargize - MODEL : Bifacial - SERÎ NUMARASI : PSXXXM8H-24/TH

Kapasite Raporunun Tarih: 10/06/2024 No: 23866 No: 813393

Sanayi Sicil Belgesi Tarih: 07/06/2023

Yerli Katkı Oranı (%): 88.88 Ürünün Teknolojik Düzeyi: Yüksek Teknoloji

Diğer Belgeler:

İşbu belge Bilim, Sanayi ve Teknoloji Bakanlığı'nın 13/09/2014 tarih ve 29118 sayılı Resmi Gazetede yayımlanan "Yerli Malı Tebliği (SGM 2014/35)" ile 10/06/2017 tarih ve 30092 sayılı Resmi Gazetede yayımlanan değişiklik Tebliğine istinaden ve TOBB tarafından hazırlanan "Yerli Malı Belgesinin Düzenlenmesi Uygulama Esaslarına" göre 16/01/2025 tarihinde düzenlenmiştir. Belgenin geçerlilik süresi veriliş tarihinden itibaren bir yıldır.

Düzenleyen Oda

Onaylayan

EGE BOLGESÍ SANAYÍ ODASI

REŞÎDE CEYLAN BELGE ŞEFÎ

(e-imzalıdır)



ABOUT US

Domestic Goods Certificates

Bifacial

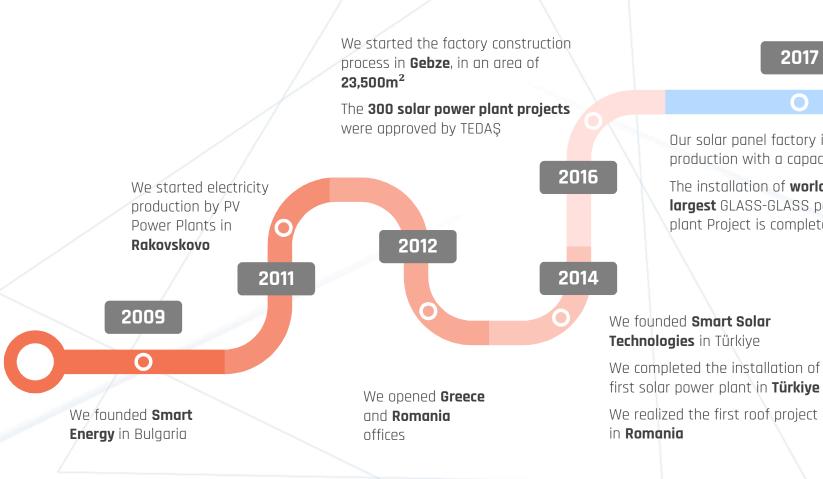
Local Content Percentage:

88.88%





Milestones



2017

Our solar panel factory in Gebze started production with a capacity of **420 MW**

The installation of world's second largest GLASS-GLASS panel solar power plant Project is completed

We increased PV module manufacturing capacity to **800 MW**

2018

2019

0

We opened **Germany**

The **holding** structure was established

and **Ukraine** offices





We increased our PV panel production capacity to **1,200 MW**

2020

2021

Our shares began trading on **Borsa istanbul** as of **March 24, 2022 #SMRTG**

0

We won our first "BIG STARS" award in Deloitte Technology Fast 50 Awards

0

We got awarded by being among 100 fastest growing companies in Türkiye by The Union of Chambers and Commodity Exchanges of Türkiye (TOBB)

We established **Switzerland** office

2022

2023

O

We opened **USA**, **Spain** and **Netherlands** offices

We obtained **CPO licence** to operate our charging stations

We received a **B score** in the **CDP Climate Change Program**, **which we participated** in for the first time.

We have been included in the **BIST Sustainability Index**.

We launched a **greenfield investment project** in Bulgaria for an integrated production facility with a capacity of **1,500 MW**.

We started **domestic wafer** production in **Aliağa** with a capacity of **1,500 MW**.

2024

2025

We began domestic solar cell production in Aliağa with a capacity of **800 MW**.

We were among **top 500 largest industrial companies** in Türkiye (iSO500)



PV Module Manufacturing

High efficiency is achieved in solar module manufacturing by using Multi Busbar, PERC, Half-Cut Cell and Bifacial technologies in our state-of-the-art automated production lines with an annual production capacity of **2,400 MW** and installed in an indoor area of **69,363 m**².

PV Cell Manufacturing

With already **800 MW** cell production capacity, the Company will achieve **2,200 MW** production capacity within 2025.

PV Wafer Manufacturing

Our **1,500 MW**-capacity domestic wafer production facility has been commissioned.







Gebze Solar Module Factory

1,200 MW Solar Module Production Capacity

19,363 m² Production Area

Kocaeli / Türkiye





Aliağa Integrated Factory

1,200 MW Solar Module Production Capacity

2,200 MW Solar Cell Production Capacity
(800 MW operational, 1,400 MW will be commissioned within 2025.)

1,500 MW Wafer Production Capacity

50,000 m² Production Area



Smart Technology





Production options with 144/132/120/108 cells

- **Better Shading Tolerance**
- **Current Classification** Increases generation power in PV plants
- More Power Low temperature coefficient (Pmax): -0.35%°C
- More Reliable Low hot-sport effect
- Anti-PID



Production options with 144/132/120/108 cells (rectangular cell: 132, 120, 108, 96)

- **TOPCon Technology** Stronger power generation
- **Current Classification** Increases generation power in PV plants
- High Efficiency Energy production up to %30 from the %80 rear side
- More Power Low temperature coefficient Pmax): -0.29%°C
- More Reliable Low hot-spot effect
- **Anti-PID**





Cam-Cam Teknolojisi Üretim



REFERENCES

Some Solar Panel References



BORUSAN ENBWTürkiye - Utility SPP
94 MWp



DESKİTürkiye – Utility SPP
90 MWp

>>>>>>>>



ZİRAAT GES*

Türkiye - Utility SPP

63.87 MWp



SAMSUNTürkiye – Utility SPP
57.28 MWp



VAN ARISU*
Türkiye - Utility SPP
55 MWp



EDİKLİ Türkiye - Utility SPP 15.20 MWp







TURNKEY SOLUTIONS (EPC)

EPC Basic Application Areas

• Large Scale Commercial Field Projects

• Medium Scale Commercial and Self-Consumption Based Field Projects

• Large and Medium Scaled Commercial and Self-Consumption Roof-top Projects

Invegrated Hybrid Projects with PV

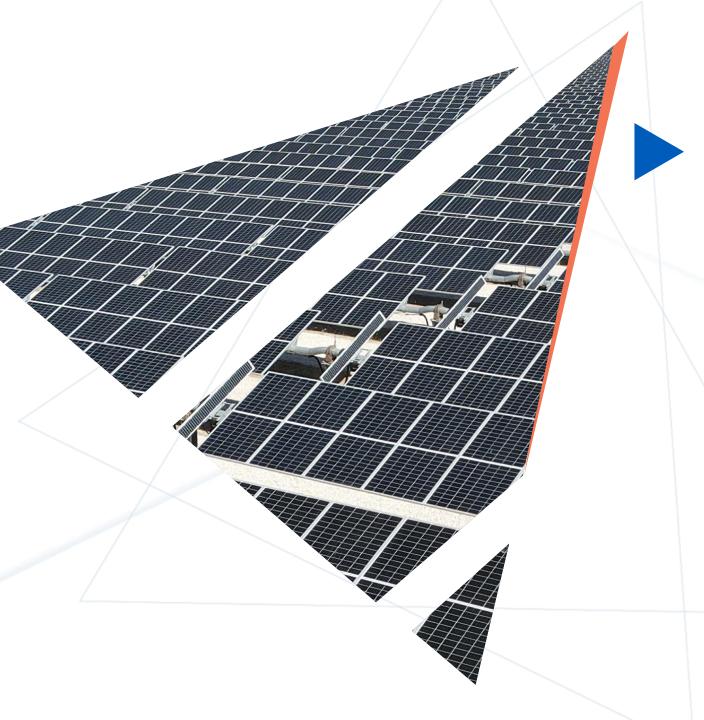
We are a solution partner with over 10 years of experience in the installation of

1,500+ MW solar power plants.









TURNKEY SOLUTIONS (EPC)

EPC Activities

In the PV market which we entered 14 years ago as an investor in Eastern Europe, we are able to work with the business definitions such as Project Developer, EPC company, BOT (build/operate/transfer), BOO (build/own/operate) in all over the world with our experience that we developed so far.

We are reversing the global energy deficit, air pollution, and dependence on fossil fuels through solar energy. With our turnkey services, we perform risk management and offer investors a project portfolio within the framework of operational excellence.





TURKNEY SOLUTIONS (EPC)

EPC Activities

We inspect the materials and products supplied when delivered to the field and just before installation. We replace damaged or defective materials or products. We protect all materials and equipment that may be exposed to damage, inclement weather or ultraviolet light. We ensure that sensitive equipment is never exposed to dirt or dust to maintain manufacturers' warranties and long-term reliability.

We ensure that all specific designs for construction, mechanical and electrical works comply fully with local and European regulations and standards. We provide appropriate packaging to protect all materials and equipment during delivery or if they are damaged in the field.





TURNKEY SOLUTIONS (EPC)

Smart Tracker

Smart Tracker System is a technology used in solar power plants and it allows solar panels to follow the movements of the sun. The system allows panels to be exposed to the maximum sunlight and therefore produce more energy.









INVESTMENTS

- The 130 MWp Niğde Bor Solar Power Plant, using domestically produced solar panels, is nearing completion.
 53.66 MWe of the plant has begun generating energy and supplying it to the grid.
- The 800 MW solar cell plant investment at the Aliaga Integrated Solar Panel and Cell Production Facility has been finalized, and cell production has begun. An additional 1,400 MW of cell production capacity will be built in 2025, and financing has been secured.
- The wafer production investment at the Aliağa Integrated Solar Panel and Cell Production Facility has been finalized, and domestic wafer production with a capacity of 1,500 MW began in July 2025.







SOLARGIZE

With our vision of leading future green Technologies, we embrace the mission of developing solutions for the needs of smart cities by establishing Smart Solargize Green Mobility Inc. to spearhead the electric vehicle charging network project.

By 2030, we aim to capture a 10% market share, providing customers with reliable and rapid charging solutions through the deployment of 10,000 licensed charging units.





SUBSIDIARIES

30.06.2025

/ /	1		
SUBSIDIARIES	FIELD OF ACTIVITY	SHARE (%)	COUNTRY
Smart Güneş Enerji Ekipmanları Pazarlama A.Ş.	Güneş Enerjisi Santrali Ekipmanları	100	Türkiye
Smart GES Enerji Üretim A.Ş.	Güneş Enerjisi Santrali Ekipmanları	100	Türkiye
Smart Sumec Enerji Ekipmanları ve Pazarlama A.Ş.	Güneş Enerjisi Santrali Ekipmanları	50	Türkiye
Smart Güneş Enerjisi Teknolojileri Ar-Ge Üretim Sanayi Ticaret A.Ş & IHK Holding A.Ş Konsorsiyumu	Güneş Enerjisi Santrali Ekipmanları	60	Türkiye
Icarus Solar GmbH	Güneş Enerjisi Santrali Ekipmanları	100	Germany
Smart Solar Ukrayna	Güneş Enerjisi Santrali Ekipmanları	100	Ukraine
Smart Solar Technology Gmbh	Güneş Enerjisi Santrali Ekipmanları	100	Germany
Smart Solargize Yeşil Mobilite Enerji Anonim Şirketi	Mobil Şarj İstasyonları Dağıtım Ağı	100	Türkiye
Smart Gunes Tecnologias Renovables S.L.	Güneş Enerjisi Santrali Ekipmanları	100	Spain
Smart Global Enterprises & Trading B.V.	Güneş Paneli ve Santrali Ticari Faaliyetleri	100	Netherland
Smart Yeşil Hidrojen Teknolojileri ve Üretim A.Ş.	Yakıt ve Enerji Üretimi	70	Türkiye
Smart Solar Technologies AD	Güneş Enerjisi Santrali Ekipmanları	100	Bulgaria
Smart Güneş Paneli Hücre Üretim Teknolojileri A.Ş.	Güneş Enerjisi Santrali Ekipmanları	100	Türkiye
Smart Energy Global Investment and Development B.V.	Güneş Enerji Santrali Ekipmanları Ticari Faaliyetleri	100	Netherlands
Smart Energy Bulgaria B.V.	Güneş Enerji Santrali Ekipmanları Ticari Faaliyetleri	100	Netherlands
Smart Energ Iberia B.V.	Güneş Enerji Santrali Ekipmanları Ticari Faaliyetleri	100	Netherlands
Smart Energy Romania B.V.	Güneş Enerji Santrali Ekipmanları Ticari Faaliyetleri	100	Netherlands
Smart Energy Overseas Investment B.V.	Güneş Enerji Santrali Ekipmanları Ticari Faaliyetleri	100	Netherlands
Smart Green Energy Technologies Inc	Güneş Paneli ve Santrali Ticari Faaliyetleri	100	USA
Smart Green Energy Trading LLC	Güneş Paneli ve Santrali Ticari Faaliyetleri	100	USA
Erseka Solar Park 3 Lot 1	Güneş Paneli ve Santrali Ticari Faaliyetleri	31	Albania
Erseka Solar Park 3 Lot 2	Güneş Paneli ve Santrali Ticari Faaliyetleri	31	Albania
KES Adi Ortaklığı	Elektrik İletim Hattı	33	Türkiye
Smart Yeşil Enerji Depolama A.Ş.	Depolamalı Güneş Paneli ve Santrali Ticari Faaliyetleri	100	Türkiye
Kaizenn Güneş Teknolojileri ve Enerji Üretim A.Ş.	Güneş Enerji Santrali Ekipmanları Ticari Faaliyetleri	100	Türkiye





FINANCIAL STATEMENTS

30.06.2025

BALANCE SHEET ITEMS	30.06.2025	31.12.2024	% Change
Current Assets	11.151.678.582	12.422.936.595	-10,23
Fixed Assets	9.906.361.995	7.951.038.194	24,59
Total Assets	21.058.040.577	20.373.974.789	3,36
Short Term Liabilities	14.247.459.757	13.150.298.670	8,34
Long Term Liabilities	3.173.018.216	3.123.809.356	1,58
Equities	3.637.562.604	4.099.866.763	-11,28
Total Liabilities	21.058.040.577	20.373.974.789	3,36
INCOME STATEMENT ITEMS	30.06.2025	30.06.2024	% değişim
Revenue	4.238.873.619	5.687.342.441	-25,47
Cost of Sales	3.371.810.154	4.439.249.536	-24,05
Gross Profit	867.063.465	1.248.092.905	-30,53
Gross Profit Margin (%)	20,46	21,95	-
Operating Profit Before Financing Expenses	519.298.204	1.364.163.866	-61,93
Net Profit For The Period	-477.406.590	220.056.947	-316,95
Equity Holder of The Parent	-475.124.509	222.276.249	-313,75
EBITDA	826.120.991	1.494.900.063	-44,74
EBITDA Margin (%)	19,49	26,28	-





SUSTAINABILITY

With our 2040 Net-Zero target, we aim to contribute to all relevant Sustainable Development Goals, in particular action.



















SUSTAINABILITY

Net Zero Target

2023



Establishment of the Sustainability Corporate Architecture



Publication of the First Sustainability Report



Acquisition of Greenhouse Gas Accounting and Verification Management System Certification



Establishment of a Responsible Supply Chain Management System



2040 Net Zero Target

2024



Carbon Disclosure Project (CDP) First Reporting



Participation in BIST Sustainability Index



NET 2030 Almost Net Zero Targets



Climate Risk Reporting

2025



Publication of the First TSRS-Compliant Integrated Sustainability Report



Life Cycle Assessment (LCA) Calculations



ISO 50001 Energy Management System Certification



Establishment of Circular Economy Strategy



Publication of Biodiversity Management Commitment

2026



Completion of ISO 14046-Compliant Water Footprint Calculation and **Verification Process**



ISO 27001 Information Security Management System Certification



Commencement of Preparations for Green Bond Issuance



Digitalization of Sustainability Processes

2030



ALMOST NET ZERO

2040



NET ZERO







SUSTAINABILITY

Fully Traceable Supply Chain

We map our polysilicon supply chain down to the excavated Quartz.

Risk Assessment

We conduct risk assessments for all companies in our supply chain.

Due Diligence

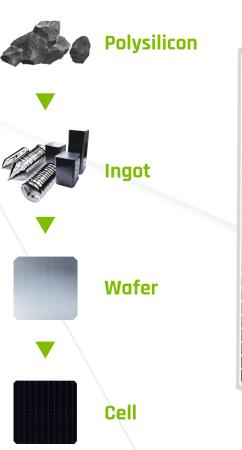
We carry out due diligence activities to verify compliance with human rights, aligned with the major requirements of our Supplier Code of Conduct.

Traceability

We trace our deliveries to ensure that no companies supporting forced labor are involved in our operations, in line with our Polysilicon Traceability Requirements.

Mitigation of Human Rights Violations

If any human rights violations are identified, we take immediate action to mitigate the risk, including excluding the violating companies from our supply chain.









HEADOUARTERS

P: + 90 216 225 72 00

F: + 90 850 305 06 10



GEBZE PV MODULE FACTORY



ALÍAĞA PV CELL & MODULE INTEGRATED FACTORY

P: + 90 232 570 53 00

F: + 90 850 305 06 10

CONTACT

USA OFFICE

BULGARIA OFFICE

NETHERLANDS OFFICE

ROMANIA OFFICE

GERMANY OFFICE

SWITZERLAND OFFICE

UKRAINE OFFICE

Novovokzalna Street 3, 03038

SPAIN OFFICE



















