STRATEGY ROADMAP

2023-2027







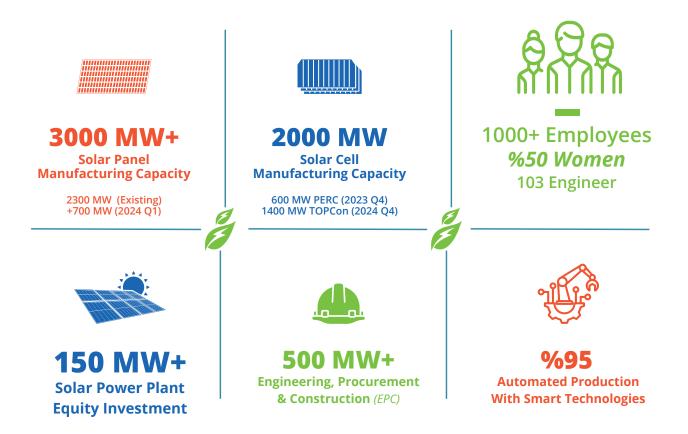
CONTENTS

5	Advantage of Solar
6	Solar in the World
7	New Era for Solar in the USA: IRA ERA
8	European Green Deal
10	Installed Power Distribution in Türkiye
12	Milestone Smart Solar Technologies
13	Bolstering Green Energy Transition
	with Solar Technology
14	Solar Value Chain & Planned Investments
15	Our Investment Map
16	Our Corporate Sustainability Framework
17	Net Zero Roadmap
18	Other Investments
22	Digital Transformation Roadmap



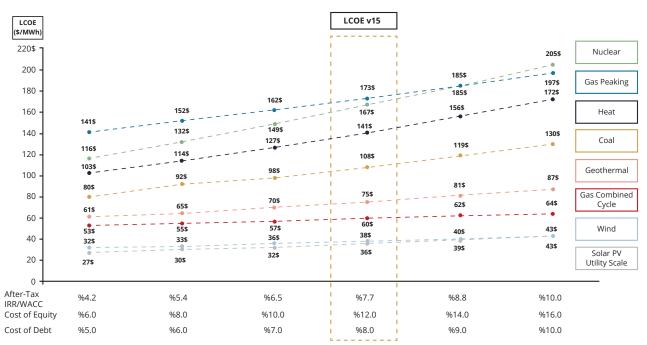


WE ARE A GLOBAL TECHNOLOGY COMPANY SUPPORTING ENERGY INNOVATION FOR A SUSTAINABLE FUTURE



ADVANTAGE OF SOLAR

Levelized Cost of Energy as Capital Cost Sensitive Benchmarking Comparison



Source: Lazard, April 2023

1000 MW SPP (Standard Solar Energy System)

In 10 Years \$1.5 Billion



Contributes to Closing our country's energy-based current account deficit

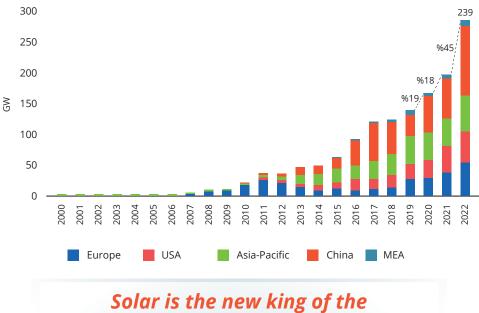


*The carbon price resulting from the EU's Carbon Border Adjustment Mechanism (CBAM) is not included in the cost.



SOLAR IN THE WORLD

TOTAL INSTALLED CAPACITY



global electricity markets.

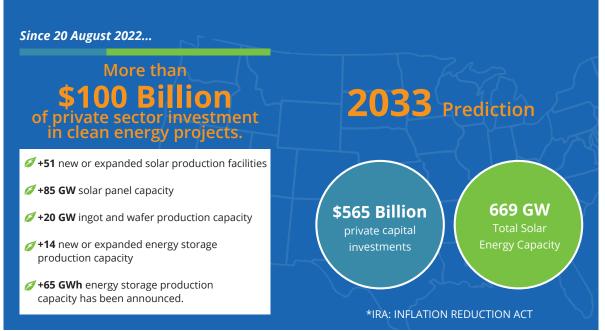
Fatih Birol Internation Energy Agency Executive Director (IEA)

ANNUAL SOLAR PV MARKET SCENARIOS 2023-2027



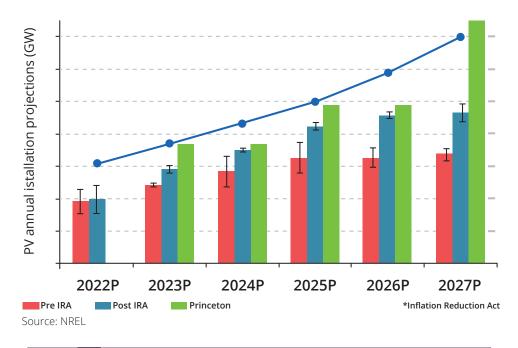
Source: Global Market Outlook for Solar Power 2023-2027 Solar Power Europe 2023

NEW ERA FOR SOLAR IN THE USA: IRA* ERA



Source SEIA Solar Energy Industry Association

- Approximately \$369 billion is budgeted for investments in energy security and climate change,
- \$6 billion budget for production-based emission reductions,
- 27 billion will be used for emissions reductions in disadvantaged communities.



SOLAR TECHNOLOGIES is a member of SOLAR ALLIANCE since 2022!



EUROPEAN GREEN DEAL

Towards a sustainable and independent future with the **REPowerEU*** strategy.



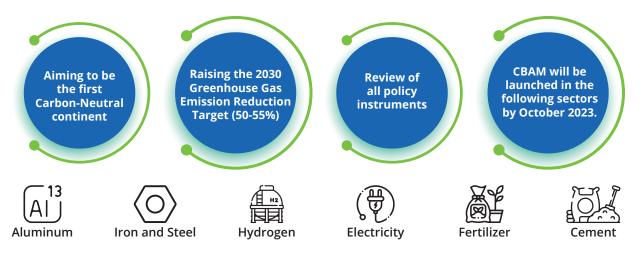
Reaching **45%**, as envisaged under *REPowerEU*, would require the EU's existing renewable energy capacity almost doubling the share of energy, and the *Fit for 55* package to increase energy efficiency by 2030. This means increasing the total renewable energy generation capacity from **1,067 GW to 1,236 GW**.



* REPowerEUnı ** European Solar Manufacturing Council

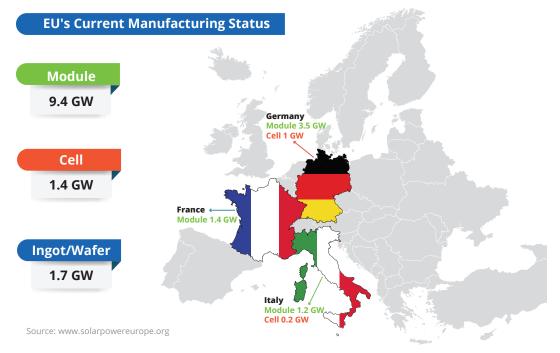
Smart Solar Technologies Strategy Roadmap

CARBON BORDER ADJUSTMENT MECHANISM



- By 2050, the goal of becoming the first carbon-neutral continent It has become the EU's highest priority policy area.
- By 2050, the EU will need a new growth path that requires the transformation of its industry.

THE EUROPEAN UNION AIMS TO INCREASE SOLAR PANEL PRODUCTION CAPACITY BY 2030 TO 30 GW.

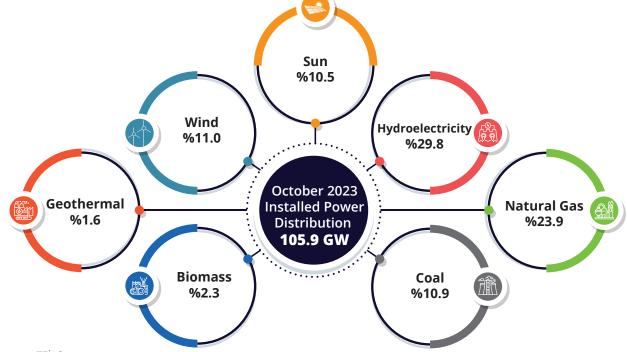


In less than three decades we have to reach net zero, but reaching net zero means developing and using a whole range of new clean technologies across our economy Ursula von der Leyen

President of the EU Commission, Davos 2023

INSTALLED POWER DISTRIBUTION IN TÜRKİYE

Since 2014, solar power installed capacity increased to 10.5 GW with stable investment policies.

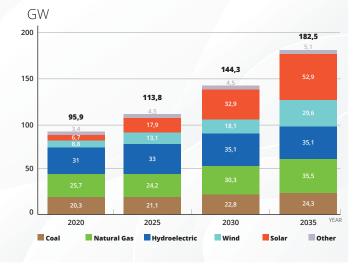


Source : TEİAŞ

Türkiye's National Energy Plan - 2035

	Primary Energy Consumption	205,3 Mtep		
	Electricity Consumption	510,4 TWh		
4	Electricity in Final Consumption	%24,9		
	Energy Intensity	%35 ↓		
<u>rin</u>	Total Installed Electricity Capacity	189,7 GW		
Ŏ Ħ	Solar Energy	52,9 GW		
*	Wind Energy	29,6 GW		
•	Battery Capacity	7,5 GW		
[≁]- ŮŮ	Electrolyzer Capacity	5 GW		

Solar Installed Capacity 2035 Target 500% Increase

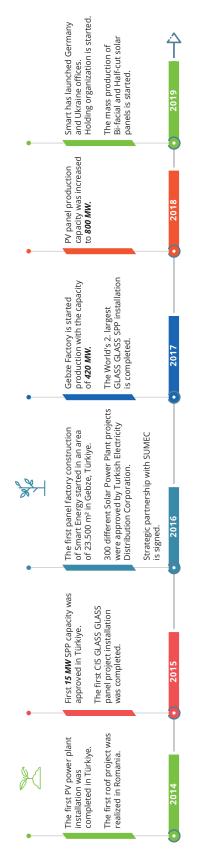


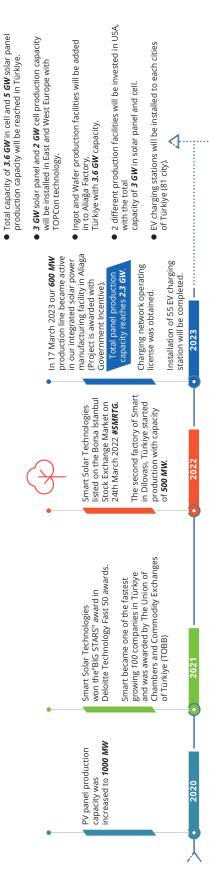
Source: Republic of Türkiye Minstry of Energy and Natural Resources

Source: Türkiye's National Energy Plan









Smart Solar Technologies are in the Big League !

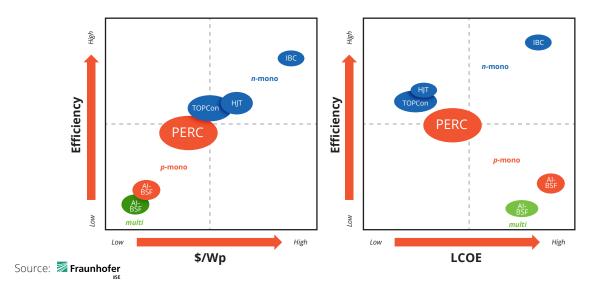
L 2024-2027

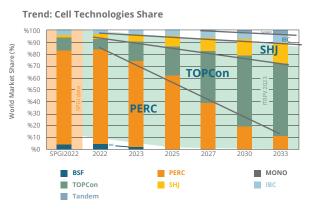
र्ष्ट्री इन्हे

BOLSTERING GREEN ENERGY TRANSITION WITH SOLAR TECHNOLOGY

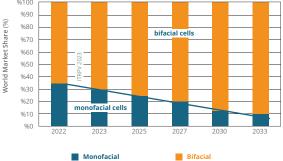
Smart Solar Technologies, with a mission of creating value based on high-quality standards and advanced technology for a greener future, is one of Europe's leading solar panel manufacturers and constructs a bright future with the most efficient and up-to-date solutions, adhering to global standards.

Through its value engineering approach, the efficiency of its solar panels has been increased to **21.30%** in Bifacial MonoPERC cells as a result of ongoing R&D efforts.





Trend: Bifacial Cells



Source: ITRPV March 2023

Solar Value Chain & Planned Investments

Invesment	Renewable Energy				Area (YEKA-4)		Project		130 MW	2023-2024	
PV System	Project Development	Turnkey EPC (Engineering -Procurement-Construction)	-Procurement-Construction) Operation & Maintenance Tracker, Inverter, Cable Design & Production Floating SPP Production Hybrid System Storage System Storage System Project Development Goals Project Development Goals BU 5 GW USA 7.5 GW		TÜRKİYE 5 GW USA 7.5 GW Other 2.5 GW	2024-2027					
Panel Production	Panel		2.3 GW	1.2 GW 2024		Middle/South/East Anatolia 1.5 GW			EUROPE (Two Seperate Locations) 3 GW USA 3 GW	2024-2027	
Panel P			Cell	Aliaga 600 MW	600 MM 2024		1.2 GW 2025	A 2 GW 2026		EUROPE 2 GW USA 3 GW	202
cessing		Wafer		1.2 GW	1.2 GW 2024		1.2 GW 2025		2026	EUROPE 2 GW	2027
Material Processing			Ingot	1.2 GW	2024	1.2 GW	2025	1.2 GW	2026	EUROPE 2 GW	2024-2027
	Polysilicon										

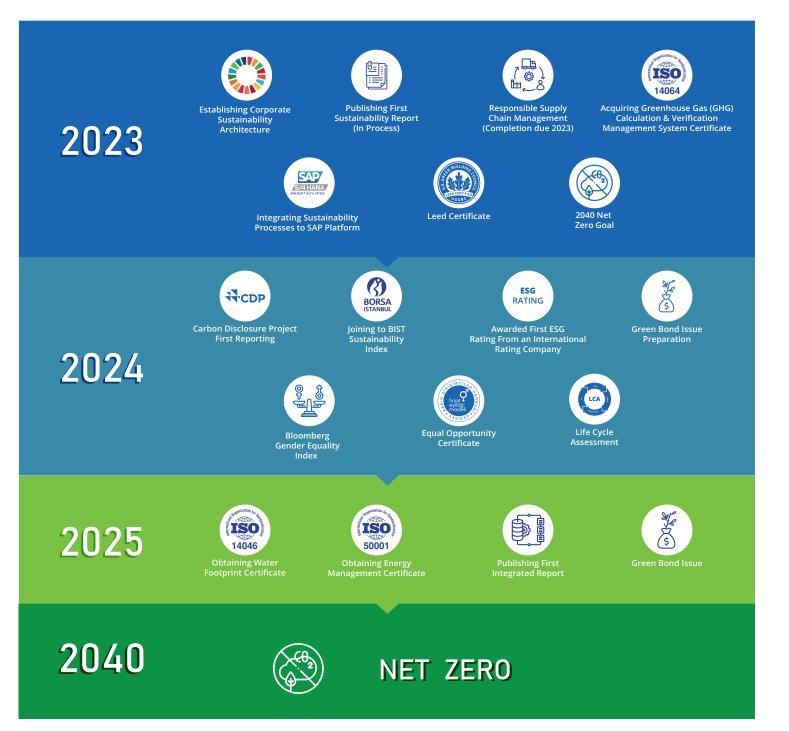


OUR INVESTMENT MAP 2023-2027

OUR CORPORATE SUSTAINABILITY FRAMEWORK



NET ZERO ROAD MAP



PROJECT BASED INVESTMENT INCENTIVE ALÍAĞA OIZ INVESTMENT

Regarding the photovoltaic solar panel production facility investment of our company to be built in İzmir with a capacity of 2.048 MW/Year, our incentive application to the Ministry of Industry and Technology, Giving Project-Based Investment Incentive to Investments, accepted with the Presidential Decision No. 6211 published in the Official Gazette which dated 15.10.2022 and numbered 31984.

The projected fixed investment amount subject to the incentive is 7.627.000.000 TL, and the incentive elements that the investment will benefit from are as follows:

- a) Customs Duty Exemption,
- b) VAT Exemption,
- c) VAT Refund,

ç) Corporate Tax Reduction (tax discount rate: 100%, investment contribution rate: 80%, the amount of contribution to the investment in the investment period)

- d) Social Security Premium Employer's Share Support (10 years without maximum amount limit),
- e) Qualified Personnel Support (maximum 120.000.000 TL),
- f) Energy Support (energy consumption not exceeding 100,000,000 TL for up to 10 years from the date of operation 50% of their expenses),
- g) Allocation of investment location (Land allocation)



Smart Solar Technologies Strategy Roadmap

OTHER INVESTMENTS

Renewable Energy Resource Area (YEKA-4) BOR-1 SPP Investment

On April 8, 2022, our subsidiary, Smart GES Üretim A.Ş, won the competition for the allocation of solar energy-based renewable energy resource areas and connection capacities in the BOR-1 (100 MWe) tender.

As a result, our group has added solar energy-based electricity generation to its portfolio. The planned power plant will have a capacity of 130 MWp against a 100 MWe SPP capacity. The necessary steps have been taken to obtain the EIA Compliance Certificate and secure financing, with plans to enter the field in 2023.

In addition, an Investment Incentive Certificate for a total fixed investment amount of \$ 110.000.000 was obtained for the BOR-1 Solar Power Plant project. The certificate includes elements such as "VAT Exemption" and "Customs Tax Exemption.



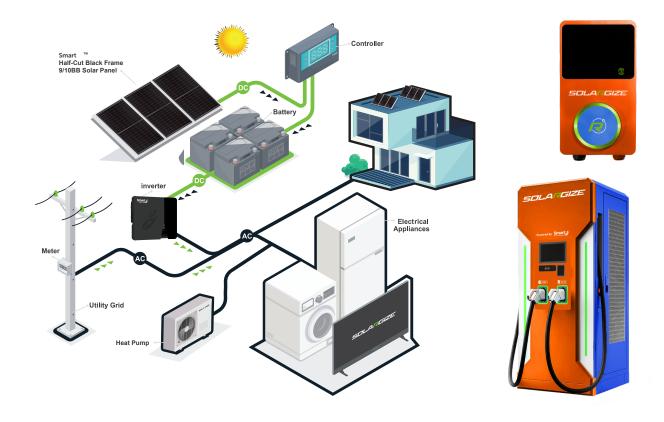
OTHER INVESTMENTS

Solargize Green Mobility Inc., established by Smart Solar Technologies, offers a range of EV charging solutions to improve accessibility and infrastructure. With a focus on user-friendliness, innovation, and sustainability, Solargize aims to establish a comprehensive charging network in urban areas, intercity roads, and public and private parking lots.

The division's products, including fast and ultra-fast charging options, aim to reduce dependence on traditional, emission-heavy vehicles.

The electrical energy that will power our charging network will be sourced from clean and renewable sources, with a zero carbon footprint. This energy will be generated from our IREC certified solar power plants.

Solargize, which will oversee our company's activities related to "Smart Cities and Green Mobility," has officially gone into operation.



OTHER INVESTMENTS

Establishment of new companies for overseas activities

• Through Smart Global Enterprises & Trading BV, a 100% subsidiary of our company, located in the Netherlands, it has been decided to establish a new company called Smart Solar Technologies, which will carry out similar activities with our Company in Bulgaria.

• In order to establish solar panel production facilities up to 3 GW production capacity in at least 2 regions in the United States, it has been decided to establish a new Company through Smart Global Enterprises & Trading BV, a 100% subsidiary of our Company, located in the Netherlands.

• It has been decided to establish a new Company in China to strengthen the procurement and supply chain, and to control the production and quality processes with suppliers, and to participate in this Company 100%.





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