SMI GRUP

Solar Mechanics Industry

CE

Short Deadline
High Quality

"18 Years of Experience"

MANUFACTURER OF SOLAR ENERGY CONSTRUCTIONS

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Who are we?

As SMI GRUP, we aim to provide the best service to our customers by combining our **18 years** of experience and our expert team of **45 people** with our **"Short Lead Time - High Quality"** approach. We manufacture high-quality solar mechanical materials in Aksaray with an annual production capacity of **25,000 tons** in our **6,000 m²** closed facility on a **10,000 m²** area.

It has a daily production capacity of **3 MW** and an annual production capacity of **780 MW**. We have **1200 MW** of project experience.

We operate among the pioneers of the Solar Profile manufacturing sector, offering project-specific solutions in the field of **C-Profiles**, **Omega Profiles**, **Aluminum Profiles**, and connection equipment, with our wide range of products such as **Ground-mounted Solar Power Systems (SPS)**, **Rooftop Solar Power Systems (SPS)**, **Carport**, **Agricultural and Tracker systems**.

45+

45+ Employee
Female employee ratio %12
Percentage of white-collar employees %28
Percentage of blue-collar employees %60

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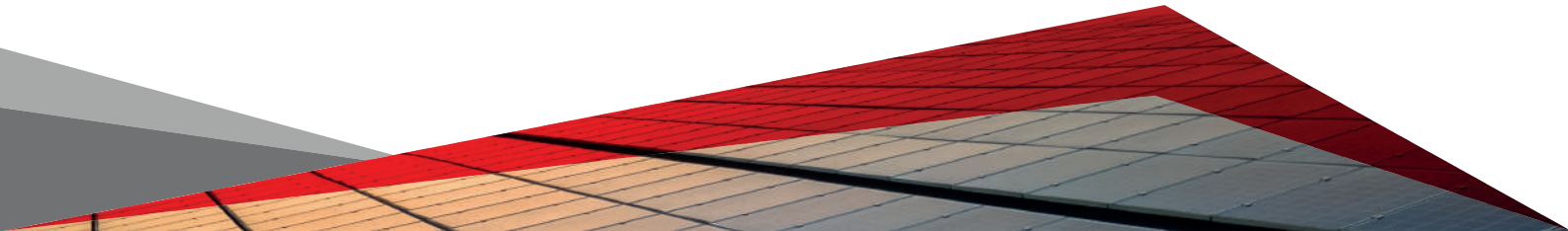
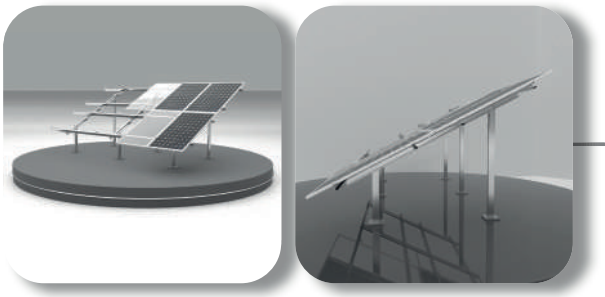
As SMI GRUP, we always prioritize customer satisfaction and provide service with a high satisfaction rate of **99.20%**. As a global company exporting to **23 countries across 6 continents** as of 2024, we manufacture in accordance with international quality standards and certify our quality with **ISO 9001, ISO 14001, ISO 45001, ISO 10002, ISO 50001, and ISO 3834 EN 1090** certificates. We also possess the **CE Certificate**, which documents the quality of our products and their compliance with international standards.



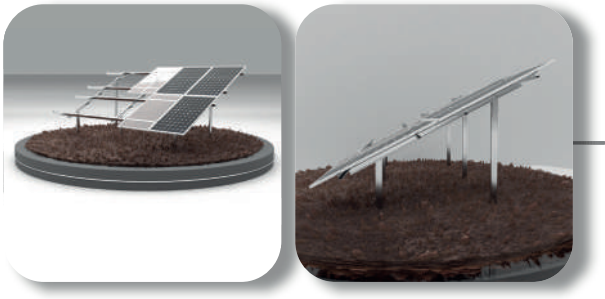
GROUND CONSTRUCTIONS
OUR MODELS

Systems on Concrete

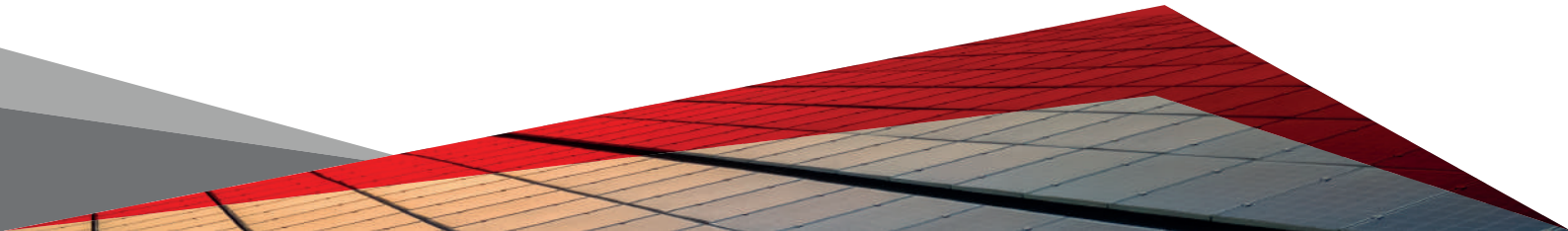


These are the strategies used when the terrain structure (loose ground or unsuitable land) makes driving unsafe. It is possible to install the system at any angle. Assembly stands, which typically consist of C profiles, utilize special fasteners

Installations Systems

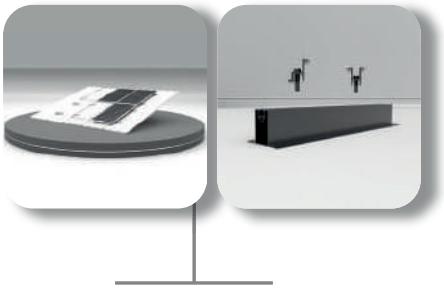


The process applied on terrains suitable for achieving a stable foundation depth is determined through static projects, deciding on the material depth.



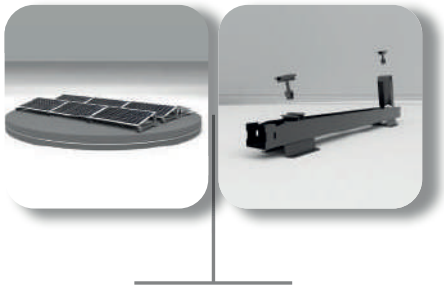
ROOF CONSTRUCTIONS
OUR MODELS

Sandwich Roof



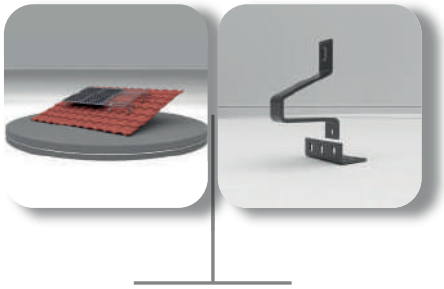
They are systems applied and anchored for sandwich panel and trapezoidal sheet covered roofs. Purlin rail profiles can be specified as full length, partial or over-pitch connection profile. There are roof profiles of different heights.

Membrane Roof



Heating is used to apply the bonding technique, and assembly is completed. Then, the floor on which the assembly will be installed is cleaned and welded with hot air. The membrane adheres better thanks to a particular roller. Other connections made on the membrane are similar to the roof mounting system.

Tiled Roof



These are systems that are fastened to the lower roof purlin and may be altered in height using a tile roof hook. Rail profiles on hook can be connected on either the side or the bottom.

CARPORT
SYSTEMS

We can recover our energy deficit by using solar panels to cover the open carport.

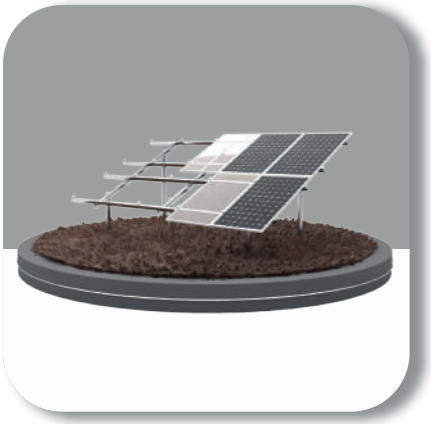
The carport systems of various sizes that we manufacture protect automobiles from weather disasters while also generating power and earning an income for the investor.

Our company offers a diverse choice of items for use in a detached house, university, hospitals, shopping center and open parking lot.
Prototype, which we designed for the trading areas, is now ready to generate electricity for your factory's garden. With the technologies we've provided you, you can track the manufacturing of any solar panel and let your clients park their automobiles more conveniently. You can also offer charging opportunity to your customer vehicles simultaneously.

In the summer, our carport solution provides shade for your vehicles, and in the fall, spring, and winter, it protects vehicles and drivers from rain.

With our advertising panel modules added to commercial parking systems, you can provide additional visuals to your customers parking their vehicles. Renting out these panels will also accelerate the return on your investment by generating extra income.

OUR AGRICULTURAL IRRIGATION SOLAR ENERGY SYSTEMS

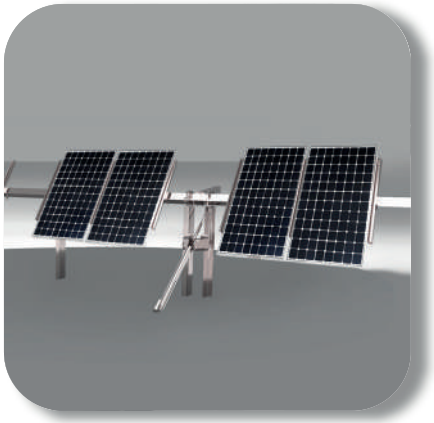


The systems that utilize the energy produced by solar panels to operate pumps and motors are known as solar irrigation systems. These systems, also referred to as agricultural irrigation systems, offer an alternative method to farmers against high electricity bills, especially in areas without electricity or where grid access is limited. Compared to the high electricity bills, these solar irrigation systems have significantly lower costs and, apart from the initial installation expense, do not have monthly operational expenses.

Various irrigation methods, such as drip irrigation, surface irrigation, sprinkler irrigation, and micro-irrigation, can be used for agricultural irrigation systems. By considering factors like the field's size and the water requirements of the crops, efficient use of water and maximum yield from the irrigated fields can be achieved. The correctly chosen solar panels, solar cables, and solar-powered agricultural irrigation systems have an average economic lifespan of around 25 years.

Considering Turkey's geographical conditions, the peak irrigation periods for agricultural fields are between April and September. During these months, solar irrigation systems can be effectively used, even during cloudy weather.

OUR TRACKER SYSTEMS



It facilitates easy installation and time savings with its innovative and flexible design. The low number of components makes labor, material, and production costs economical. Through its dynamic tracking algorithm, it continuously follows the sun with active control in all kinds of terrains with a single installation.

Thanks to its 3 degrees of freedom spherical joint, it adapts to the natural terrain structure of the field with high tolerance. The automatic repositioning feature protects panels from possible damage by moving them to a predetermined position during adverse weather conditions.

Our innovative and flexible solar tracking system, with its easy installation and advanced technology that easily adapts to different terrain layouts and panel arrangements, generates up to 21% more energy production compared to fixed systems.

SUPPORT SERVİCES

PILE
NAILING

STATIC
ANALYSIS

FITTING / PULLING
TESTS

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ABOUT US

SMI GRUP was founded that be flat steel and steel roll processing center of Turkey in 2007. Additionaly, our company, which is founded in Aksaray Organized Industrial Zone, provides service in the fields of automotive technologies and engineering.

SMI GRUP, which constantly renews itself new investment it has made, has a great strategic importance with its rational investment close location to customer centers and incentive advantage since the day it was founded.

SMI GRUP is one of the pioneers of its sector with a production capacity of 50 tons per day and is the best in Turkey in galvanized steel processing.

In the steel and energy sector the SMI GRUP meets all requirements in the field of welded manufactu ring, roll forming processes, flat product processing, machining, sandplasting and painting.

SMI GRUP is a company in Turkey that produces substructures and fasteners for solar energy. Our goal is to make sure that the consumer is given with parts that are created in accordance with European standards but are logistically challenging to obtain from within Europe.

Vision

To be first prefered company in the welded part manufacturing and solar energy sectors with our innovative and responsible approach.

Mission

To identify the needs of our stakeholders and to meet these needs with an innovative, reliable, responsible and best service approach.

Our Quality and Service Policy

SMI GRUP controls and ships its products to ensure that they adhere to high quality standards, and in close collaboration with its client needs. SMI GRUP also continuously impreoves itself based on the input it recieves from qualified field assembly teams.

Since the day SMI GRUP was founded, it embraced the "Lean Manufacturing Concept" and placed a high value on environmentel preservation in all of its industrial operations.

The key points of SMI GRUP's achievements are: Zero kilometer analysis system, costu - mer satisfaction, emergency management, tables of target compliance, 5S and suggesti- on management, and the capacity to carry out activities for continuous improvement.

These superior features make SMI GRUP one of the significant suppliers in the Solar constructions sector.

2007 to 2024
Realized Investment Plan from

2007-2010
Foundation
- 1350m2 Closed Area
- 1350m2 Closed Area
- Universal Machines

2011-2013
Project+Transition to Mass Production
- 2700 m2 Closed Area
- 7300 m2 Open Area
- CNC Machines

2014-2016
Sandblasting and Foundation of Paint Line
- 2700 m2 Closed Area
- 2200 m2 Half-open Area
- 600 m2 Administrative Building
- 4500 m2 Open Area
- Sandblasting and Dyehouse

2017-2018
Foundation of First Servo+Rollform Line
- 2700 m2 Closed Area
- 2200 m2 Half-open Area
- 600 m2 Administrative Building
- 4500 m2 Open Area
- Cold Shaping
- Piling Equipments

2019-2020
Foundation of Second Servo+Rollform Line
- 2700 m2 Closed Area
- 2200 m2 Half-open Area
- 600 m2 Administrative Building
- 4500 m2 Open Area
- Machine Investment

2021-2022
Foundation of Third Servo+Rollform Line
- 6000m² Closed Area
- 4000m² Open area
- 10000m² Total area
- Outbuildings Investment
- Open Area and Landscaping

2023
4th and 5th SERVO+ROLLFORM ESTABLISHING THE LINE
- 6000m² Closed Area
- 4000m² Open Area
- 10000m² Total area
- 4 and 5. Rollform Line
- Rooftop Solar Systems
- Software (ERP)
- Laser (sheet + pipe/profile)

2024
6th and 7th SERVO+ROLLFORM ESTABLISHING THE LINE
- 6000m² Closed Area
- 4000m² Open Area
- 10000m² Total area
- 6th and 7th Rollform Line.
- Modernization of All Lines

Strong and sustainable growth

2015
5MW
GES Work Start

2016
22MW
Professional GES
Machine Investments

2017
39MW
Professional GES
Machine Investments

2018
46MW
Actual Production

2019
42MW
Actual Production

2020
56MW
Actual Production

2021
118MW
Actual Production

2022
216MW
Actual Production

2023
291MW
Actual Production

2024
323MW
Actual Production

Target for 2025: 780 MW

Our Experiences

25.000
TONS

Annual Production Capacity

10.000
M²

Facility

45
PEOPLE

Our Expert Team

18
YEAR

Experience

6 Continent
23 Country

Export

99,2
PERCENT

Customer Satisfaction (2024)

1200
MW

Our Solar Power Plant (GES) Construction References To Date (as of 2024)

780
MW

Our Renewed Annual Production Capacity (for the year 2025)

Targets

01 Redouble the production capacity of the company on solar energy systems and production of 'mechanics substructure''

02 Increase the production variety, produce the product adequate to customer requests

03 Increase the competitive power of company

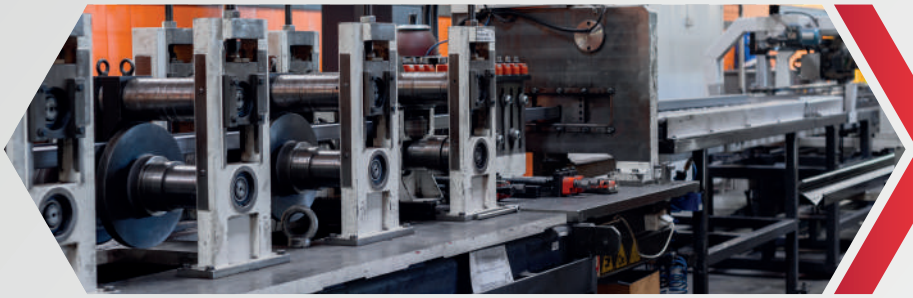
04 Increase the raw material and labor productivity

05 Lower the production costs

06 Contribute to increase of short and middle period expot quantity in Aksaray Organized Industrial Zone

07 Support the emergency management procedure with new machines

Our Machine Capacity



Servo Drivers + Rollform Lines

120 TONS/SHIFT
200 TONS/DAY

CNC Laser

25 TONS/DAY

CNC Press Brakes

50 TONS/DAY

Sawing Machine

10 TONS/DAY

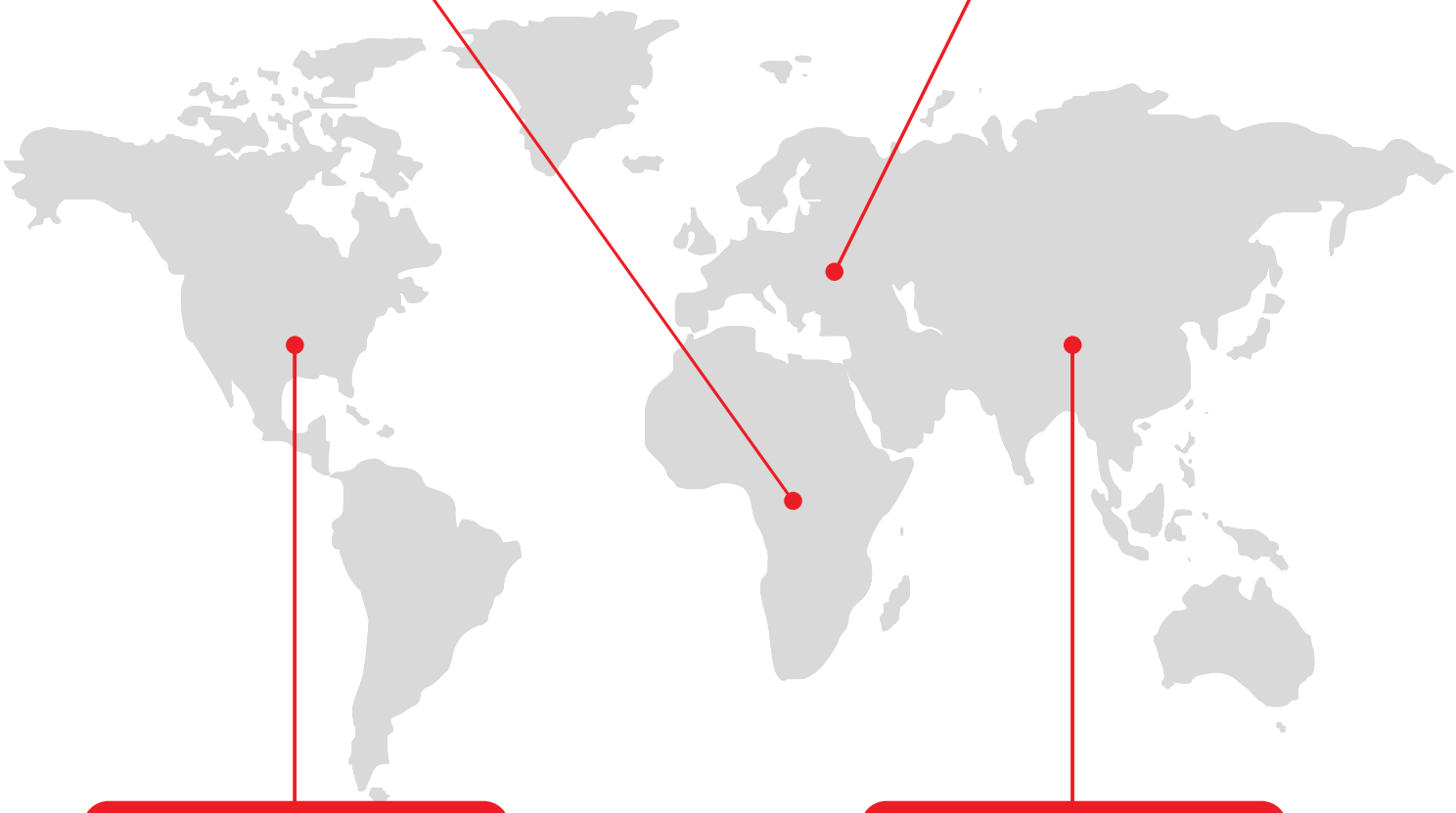
Our Exports by Country

AFRICAN CONTINENT

- Niger
- Somali

EUROPE

- Germany
- Austria
- Poland
- France
- Croatia
- Italy
- Spain
- Ukraine
- Romania
- Macedonia
- Hungary
- Holland
- Portugal
- Albania.
- Moldova



NORTH AMERİCA

- America

ASIA

- Azerbaijan
- Iran
- Iraq
- Uzbekistan
- United Arab Emirates

www.smigrup.com

CE

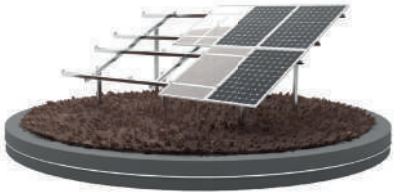
ISO 9001 | ISO 14001 | ISO 45001

ISO 10002 | ISO 50001 | ISO 3834 | EN 1090

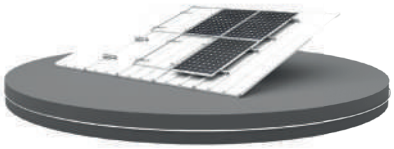
“WE ARE SUPPORTING YOUR INVESTMENT”

LAND SOLAR ENERGY SYSTEMS

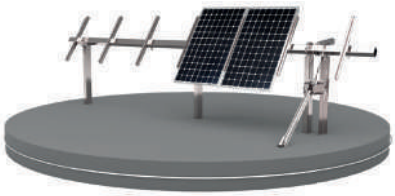
AGRICULTURALIRRIGATION SOLAR ENERGY SYSTEMS



ROOFTOP SOLAR SYSTEMS

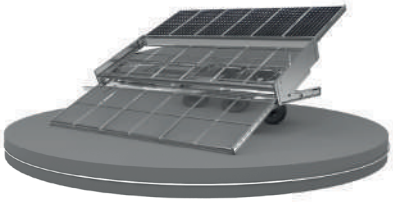


TRACKER SOLAR ENERGY SYSTEMS



SOLAR CARPORT

MOBILE SOLAR ENERGY SYSTEMS



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