



SOLARS
ENERJİ SİSTEMLERİ A.Ş.



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Much of the energy we are using today is derived from fossil fuels such as coal, oil and natural gas. The fact that these fuels are limited in the face of rapidly growing need for energy, and the damage they cause to the environment, high production costs, increase the importance of renewable energy sources such as solar, wind, water and geothermal.

In this context, as **SOLARS ENERGY**, a company jointly founded by _____ and MERTOKON companies that bring the dynamism of the private sector to the solar energy industry with their experience gained over many years in the Energy and Construction industries;

- We are one of the most powerful actors of the renewable energy industry
 - That pays attention to country resources, protect the environment and to sustainable energy sources,
 - Develops first class, real and profitable turnkey,
 - Solar Energy Parks with the high quality products it supplies,
 - Creates and engages in project management, provides maintenance and operational support,
- if requested.

The attention that we attach to the value of the renewable energy, environment and leaving a cleaner world for future generations is our basic principle.

It is our duty to act with environmental awareness and to make it widespread for Turkey and for the entire world.

Quality Policy



The Quality Policy of SOLARS ENERGY is to have the ability to determine the market needs in the fastest and most accurate way and to respond to them by maximizing the performance/personnel ratio with its experience and state-of-art technical equipment; and to become the most reliable brand in the SOLAR ENERGY industry with our rapid and effective planning power.

In this line;

-We aim to create a highly motivated working environment between all the departments and employees of our company by achieving the team spirit

-To comply without quality management system established in accordance with ISO 9001 standards, to have a structure that is ready for all the changes and innovations arising in our environment and industry and that can forecast the new trends of the market before anyone else and in the correct manner and create solutions in the possible shortest time,

-To have an organization that works in accordance with the laws of the Republic of Turkey and codes of conduct, values its employees, makes contribution to their personal development, develops with a powerful cooperation established between service and goods providers and customers and has a high level of social responsibility and environmental awareness .



Vision

**GLOBALLY
PRESTIGIOUS**

**FUTURE
DIRECTED**

**RESPECTFUL TO
ENVIRONMENT**

With the vision of **SOLARS ENEGY**, it is intended to ensure profitable, long-term and sustainable growth, to increase market share based on the approach of reaching global markets, to take part in the global market with innovative products and applications, to guarantee the future with the corporate responsibility awareness, to increase correct and efficient use of renewable energy resources and to decrease foreign energy dependence.

General Information

Trade Name :SOLARS ENERJİ SİSTEMLERİ ANONİM ŞİRKETİ
Trade registry number :399475
Head Office Address :Nasuh Akar Mah. Süleyman Hacı Abdullahoğlu Cad. No: 37/2
Çankaya/ ANKARA
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Çankaya/ ANKARA
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Web-site : www.solars.com.tr

Shareholders

**SOLARS ENERJİ SİSTEMLERİ
ANONİM ŞİRKETİ**

**MAHMUT SAMİ
TOPBAŞ**

**MER-TO-KON
İNŞAAT
MÜHENDİSLİK A.Ş.**

**ENERKON
DANIŞMANLIK İNŞAAT
ENERJİ SAN.VE TİC. A.Ş.**

**MEHMET FATİH
ÇITLAK**

Board of Directors



Chairman of Board - MAHMUT SAMİ TOPBAŞ



He was born in Bozkır, Konya in 1972 and completed his primary, secondary and high school education in Konya. He is married with 3 children.

He was a member of youth branches of Refah Party, and worked as a district deputy chairman of Fazilet Party, provincial founding member of Adalet ve Kalkınma Partisi, provincial deputy chairman, alderman, chairman of Election Coordination Center, council member of Konya Chamber of Trade and engaged in managerial positions in some foundations and associations.

M.Sami TOPBAŞ, is the senior partner of;

- MERTOKON İnşaat Mühendislik Co. (operating in mass housing and infrastructure industry)
- DEZENKON Kimya Co. (engaged in disinfecting agent manufacturing)
- ENERKON Enerji Danışmanlık Co.(operating in field development and infrastructure services in the energy industry)
- AZREF Güzel Sanatlar Eğitim Co. (operating in fine arts)
- ENERKON SOLARS INTERNATIONAL TURKEY Enerji Üretim Sistemleri Sanayi Ve Ticaret Co. (operating in energy industry)

Board Of Directors



Vice Chairman of the Board - MEHMET FATİH ÇITLAK



He was born in Ankara in 1966. He completed his primary, secondary and high school education in Ankara. He graduated from Marmara University, Faculty of Science and Literature, Turkish language and Literature department. He is married with 4 children.

M. Fatih ÇITLAK is author of 9 books «Kırk Mektup, Mesnevi Şerhi / Padişah Cariye Kıssası, Mesnevi Şerhi / 18 Beyit, Huzur Defteri, Nur Kandili, Aşkın Bir Noktası, Ben Dervişim Diyene, Küfür Fedaisi, Beyaz Mercan Siyah İnci.» He is Author and General Publication Director of Keşkul, Seasonal Art and Culture and Sufism Cultural Magazine. He is columnist of Yeni Şafak Newspaper, Takvim Newspaper. He is the host and presenter of many TV and Radio programmes. He held more than 500 conferences in Istanbul Metropolitan Municipality Conference Halls. He held Sema Ceremonies more than 30 mainly in Italy, Germany, Austria, Hungary, Denmark, Portugal.

He is the Director of Young Businessman Association and Asır Media Agency.

He was a Manager Assistant and Field Staff of Istanbul Taksim Jeophysics and Drilling Company

He is the member of; İsbek, Human and İrfan Association, International Mevlana Association, Young Businessman Association, Ladies Lore and Cultural Association, Turkish Historical Sufi Musics Association.

He can speak Advanced Arabic, English, Persian, Georgian

Board of Directors



Member of Board - Aykut Bakırcı



He was born in Ankara in 1966. He completed his primary, secondary and high school education in Ankara. He graduated from Ankara University, Faculty of Law. He is married with 1 children.

Aykut Bakırcı started his career as a legal practitioner in 1990. From 1996 until 2006 he was employed as counsel in the legal department of the Turkish Privatisation Administration. From 2006 until 2010 he served as the Head of Legal of the Turkish Privatisation Administration.

During his time at the Privatisation Administration, Aykut Bakırcı was engaged in drafting and amending various primary and secondary legislation, most notably the electricity, natural gas, infrastructure and national lottery legislation. He also acted as a draftsman for tender specifications in respect of the sale of state assets and entities. In addition, Aykut Bakırcı was a key figure in organising tenders for the privatisation of state assets and entities and bringing such tenders to a successful completion. This also entailed that he negotiated transfer of operational rights agreements with successful bidders and their financiers and attended hearings on behalf of the Privatisation Administration before the Council of State (i.e. the Turkish Supreme Administrative Court) for the setting aside of any judicial challenges to such privatisations.

Aykut Bakırcı was also a member of the board of directors of a variety of state companies, such as TÜPRAS (Turkey's Petrol Refinery A.Ş.), Erdemir Madencilik A.Ş. (Erdemir Mining A.Ş.). His experience also includes being a member of tender committees for the sale of state assets and entities, such as POAS (Petrol Refinery), TÜPRAS (Turkey's Petrol Refinery A.Ş.), TEKEL (Turkey's Tobacco and Alcoholic Beverages Company), TEDAS Baskent and Sakarya Electricity Distribution A.Ş., and Türkiye Seker Fabrikaları (Turkey's Sugar Companies A.Ş.).

He is the author of several articles on the privatisation of Turkey's energy sector.

EPC (Engineering Procurement Constructions)



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EPC (Engineering Procurement Constructions)

SOLARS Energy Systems Inc. Co., is capable of providing full service in the solar power plants (SPP) and construction projects as a reliable EPC contractor.

Having the capacity to provide a vast range of service, **SOLARS Energy Systems Inc. Co.** can also complete turnkey projects of alternative energy systems.

SOLARS Energy Systems Inc. Co. started the installation of a solar power plan with 2.194,66 MWp capacity in Konya. In addition, we are at the installation phase of a solar power plant with 4559,06 MWp in Ankara. All these will be completed as a turnkey, lump sum Engineering-Purchasing-Construction commitment, and the commissioning process after the installation could also be undertaken successfully. The founding partner of the company MERTOKON İNŞAAT MÜHENDİSLİK A.Ş. Completed the installation of a 32 MW capacity solar power plant.

EPC PROCESS



Measurement and Feasibility

- Selection of the location from an analytic point of view
- Performing the measurements as specified in the relevant legislation
- Paying attention to data quality
- Performing the TECHNICAL ANALYSIS according to the measurement feasibility study results
- Performing a FINANCIAL ANALYSIS based on long-term (after the end of support mechanism) price forecast

Project Development

- Calculation of long-term production values
- Detailed planning of business plans
- Analytical selection of equipment
- Monitoring the manufacturing process to ensure the quality of the equipment and supervision of compliance with the design principles (assignment of third parties for this purpose)
- Design of network connection
- Environmental impact assessment
- Performing risk assessment activities where technical, financial, environmental and other factors are evaluated together

EPC PROCESS



Construction-Installation

- Monitoring of the planning and construction process with independent third party views
- Conducting the construction process with a program management approach,
- Risk management practices
- Facility installation
- Commissioning the system
- Operation and maintenance of the system

O & M – Operation & Maintenance Suitable **operating and maintenance** solutions are provided to increase energy production, reduce maintenance costs and optimize costs in Solar Energy Power Plants.

SOLARS ENERJİ SİSTEMLERİ A.Ş. has undertaken the **operating and maintenance** processes of the projects it develops. For this, it employs competent staff resident in project locations.

- Production-focused O&M processes
- Production guarantee during project life
- Material guarantee during project life
- Guaranteed return times
- Annual audit



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***** UNLICENSED SOLAR ENERGY GENERATION
REGULATION OF ENERGY MARKET REGULATORY
AUTHORITY ENTITLES ALL THE PRIVATE OR LEGAL
PERSONS TO ESTABLISH UNLICENSED SOLAR POWER
PLANTS UP TO 1 MW.*****

In this context, **SOLARS ENERJİ SİSTEMLERİ A.Ş.**

has been carrying out the following processes

- Land and site identification activities
- Examination of the determined voltage lines around the land
- Examination of current climate and meteorological situation of the land
 - Solar measurement on solar energy projects
 - Determination of electricity consumption
- Performing a technical analysis to launch the project
 - Creation of cost analysis tables
- Carrying out a financial analysis and establishing the appropriate finance model
- Making the applications of all licenses required in the project and their follow-up
 - Turnkey installation and operation



WHY SOLAR POWER?

- Renewable and continuous,
- Clean, natural, harmless to the environment and health,
- Environmentally friendly,
- Does not cause water pollution,
- Silent, odorless, smokeless power,
- Easy to increase capacity,
- Provides uninterrupted power in disaster situations or earthquakes etc,
- Available to the military and security applications,
- Available to hybrid applications,
- Not affected by the economic crisis that may arise,
- Highly convenient to local applications,
- not foreign-dependent, independent,
- Does not require complex technology,
- Modular, transportable,
- Long operating life,
- Low operating and maintenance costs,
- No harmful waste such as gas, smoke, sulfur or radiation,
- Does not reduce like other energy sources, even increases instead every day.

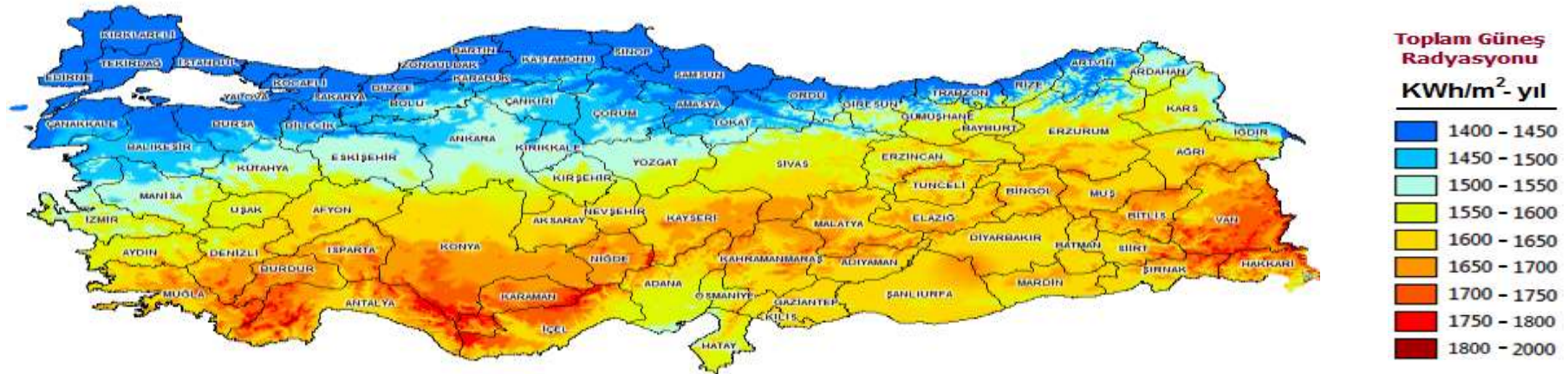
SYSTEM COMPONENTS

- PV Solar Panels,
- Solar Inverters,
- Solar Charge Controllers, Regulators,
- Solar Cabling,
- PV Connector,
- Fuse elements, breakers,
- Junction and junction boxes, electrical panel,
- Battery cabinet, closet, shelf system,
- Electricity Meters (Selling, Buying)
- Protection against lightning, lightning rod, lightning conductor,
- Grounding, leakage current protection,
- Mounting components, metal construction, PV module trestles,
- Indicators, measuring tools,
- Analysis and Monitoring Devices, data logger (via the display board, the Internet or SMS)
- Security, operation, maintenance.

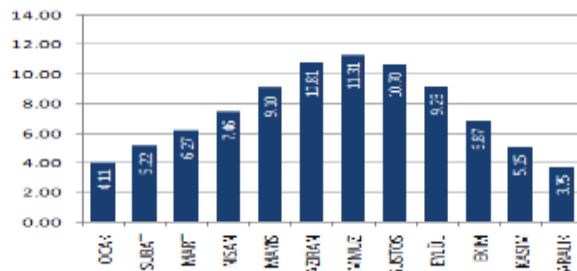


Solar Radiation Map of Turkey

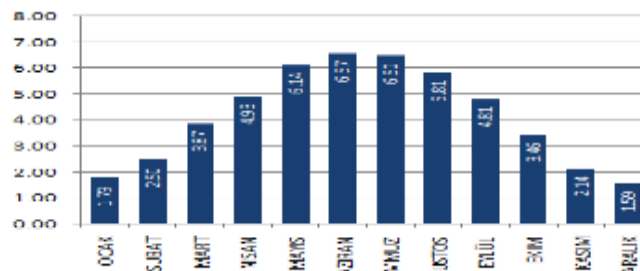
The distribution of the number of power plants whose provisional acceptance has been performed to the cities on a GEPA map is as follows. It is understood from the regions where the number of projects with a temporary acceptance is increasing that the areas seeming efficient in GEPA attract the attention of investors. Eastern Anatolia, Southeastern Anatolia, Black Sea and Central Anatolia in the north are the regions that are not attracted by investors compared to other regions



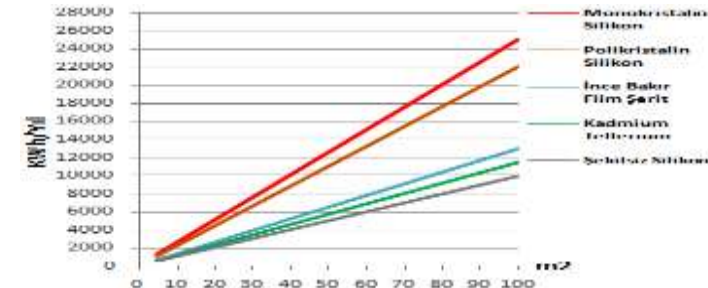
Sunshine Times (Hours)



Global Radiation Values (KWh / m²-day)



TURKEY PV Type-Field-Generatable Energy (KWh-Year)



Projects that our
MERTOKON subsidiary has
completed



KONYA - KARADONA

Total Capacity : 6.73 MW

Coordinates : 38⁰⁰2'57.75" K 33⁰⁰1'09.62" D



KONYA - KARADONA



KONYA - KARADONA



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KONYA - KARADONA



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Projects that our
MERTOKON subsidiary has
completed

KONYA – YENİDOĞAN / KARAALI



Total Capacity
Coordinates

: 5.32 MW

: 37°56'45.06"K, 31°51'48.95"D



KONYA – YENİDOĞAN / KARAALI



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KONYA – YENİDOĞAN / KARAALI



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Projects that our
MERTOKON subsidiary has
completed



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KONYA – DERBENT



Total Capacity : 1 MW
Coordinates : 38° 1'16.27"K
31°59'5.52"D



KONYA – DERBENT





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Projects that our
MERTOKON subsidiary has
completed



KAYSERİ – DEVELİ

Total Capacity : 1 mWp + 1.148 mWp +1.148 mWp

Coordinates : 38°22'46.27"K, 35°26'45.98"D



KAYSERİ – DEVELİ



KAYSERİ – DEVELİ



Projects that our
MERTOKON subsidiary has
completed



KONYA - ZİVECİK

Total Capacity : 13 MW



KONYA - ZİVECİK



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KONYA - ZİVECİK



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Projects that our
MERTOKON subsidiary has
completed



KONYA - TATKÖY

Total Capacity	:	4.8 MW
203/14 Parcel Coordinates:		38°00'22.05" K, 32°17'39.27" D
203/28 Parcel Coordinates:		38°00'01.71" K, 32°17'37.88" D
219/6 Parcel Coordinates:		37°59'13.96" K, 32°17'11.54" D



Projects initiated to be
constructed by MERTOKON
subsidiary



KONYA – SEYDİŞEHİR

Total Capacity : 23.5 MW

Coordinates : Seydişehir OSB



Projects initiated to be
constructed by MERTOKON
subsidiary



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NİĞDE- YEŞİLGÖLCÜK

Total Capacity : 3 MW



Projects initiated to be
constructed by MERTOKON
subsidiary



ANTALYA – AKSEKİ

Total Capacity : 2 MW



Projects under construction



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ANKARA- ELMADAĞ

Total Capacity: 4.559,06 MWp





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Projects under construction

KONYA- GÖZLÜ

Total Capacity: 1.124,24 MWp



Projects under construction



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KONYA- GÖZLÜ

Total Capacity: 1.124,24 MWp





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Projects under construction

KONYA- GÖZLÜ

Total Capacity: 1.124,24 MWp





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Projects under construction

KONYA- GÖZLÜ

Total Capacity: 1.124,24 MWp





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Projects under construction



KONYA- AHIRLI

Total Capacity: 346.84 KWp

