

iL TEKNO

SOLAR



Solar
Power
Plants

ADVANCED TECHNOLOGY
POSITIVE ENERGY

itekno.com



With our advanced technology,
we harness the limitless potential of the
sun and transform it into **sustainable**
positive energy.



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ILTEKNO

SOLAR



İltekno, as one of the five subsidiaries of **Enso Holding**, prioritizes customer satisfaction while providing engineering, design, procurement, installation, commissioning, and after-sales services.

With over 35 years of experience in the energy sector, İltekno offers sustainable and efficient solutions. Since 2021, it has expanded its portfolio to include solar energy (PV) projects, covering rooftop and ground-mounted PV systems, as well as on-grid and off-grid solutions, making a difference in the renewable energy sector.

Through hybrid energy systems and energy storage solutions, İltekno ensures continuous, flexible, and efficient energy management, maximizing benefits for businesses.

İltekno Cogeneration and İltekno Solar have completed over 350 projects in 25 countries across four continents, totaling over 2,400 MW of installed capacity.

By strengthening its leadership in energy systems through MWM distributorship, **İltekno** continues to contribute to a sustainable future with its investments in renewable energy.

İltekno is shaping the world's energy with efficient and clean solutions.



CONNECTING OUR ENERGY WITH THE WORLD

Our İstanbul headquarters offers project design, implementation, and commissioning solutions that align with Ilteknö's ideals. Our positive attitude spreads globally through our factories, project sites, and service maintenance network in different countries.

Offices

- İstanbul, Türkiye
- Amsterdam, Netherlands
- Tashkent, Uzbekistan
- Tunis, Tunisia

Factories

- Kocaeli, Türkiye: Container Manufacturing Facility
- Kocaeli, Türkiye: Service and Automation Facility
- Gaziantep, Türkiye: Service, Maintenance and Stock Center
- Tashkent, Uzbekistan: Service, Maintenance and Stock Center



South America

Guyana
Bonaire
Barbados



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4

CONTINENT

25

COUNTRY

350

PROJECT

2,400 MW

INSTALLED CAPACITY

Europe

United Kingdom
Bulgaria
Serbia
Ukraine

İltekno Europe B.V.
Netherlands

Asia

Headquarters
Türkiye

Iraq
Pakistan
Jordan
Georgia
Cyprus
Palestine
Kazakhstan

Africa

Sierra Leone
Nigeria
Egypt
Mauritania
Algeria

Branch / Service

Guinea
Tunisia

Branch / Service

Uzbekistan

SOLAR POWER PLANTS

Solar Power Plants (SPP) convert sunlight into clean and renewable energy, offering an environmentally friendly energy production solution. These high-efficiency systems optimize energy costs while reducing the carbon footprint. SPP systems can be used either grid-connected or off-grid, making them an ideal choice for sustainable energy goals. They provide flexible solutions to meet the energy needs of various industries.

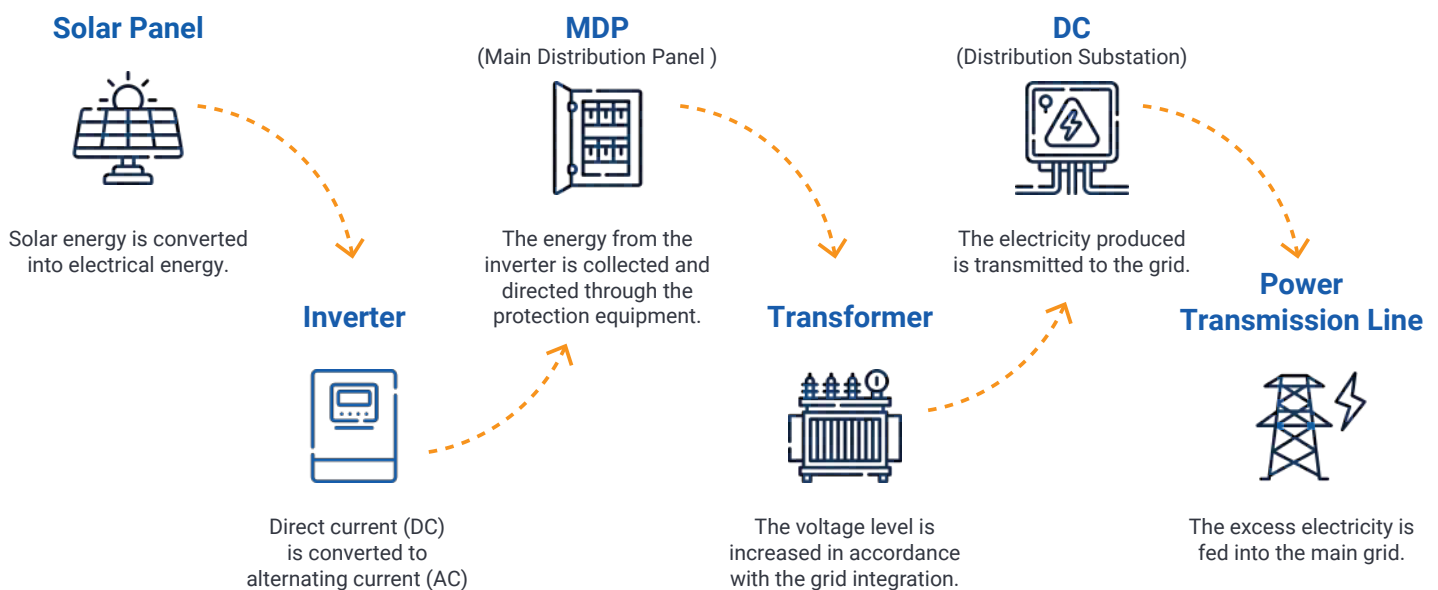
What Are the Investment Advantages?

Solar Power Plants (SPP) are a strategic investment for businesses seeking to decrease energy costs and shift to environmentally friendly solutions. Industrial facilities, hotels, shopping malls, logistics warehouses, agriculture, and livestock enterprises with high energy demands can generate their own electricity through SPP or sell excess energy to recover their investment costs in a short time. With off-grid power generation, businesses can continue operations without being affected by grid failures, disasters, or outages.

Beyond economic benefits, SPP investments enhance business prestige, reduce carbon footprint, and contribute to a sustainable future. Supported by government incentives, this system is a strong step toward energy independence, offering significant long-term cost advantages.

SPP Production and Operation Diagram

Solar power plants generate direct current (DC) electricity by absorbing sunlight. Inverters convert energy into alternating current (AC), which can be used on the grid. The generated energy can be fed into the grid or stored in energy storage systems for future use.



Investing in solar power not only meets your energy demands but also generates additional income by selling excess electricity to the grid. Surplus electricity from solar power plants is transmitted to the grid through government incentives and renewable energy rules, guaranteeing effective consumption.

This approach accelerates the return on investment while promoting sustainable energy solutions, which benefit the environment and secure the future.

Solar power plants represent the perfect combination of economic gain and eco-friendly production.

**Make your
self-consumption
sustainable and,
turn your excess
electricity into income.**

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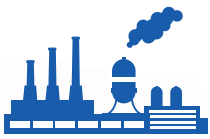


INDUSTRY SOLUTIONS

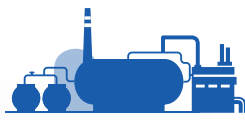
Hybrid Energy Systems provide a reliable and sustainable energy source for industries with high energy demands and critical energy continuity requirements.

These systems combine solar power plants (SPP), cogeneration, and energy storage solutions, making them applicable across a wide range of sectors, from industrial facilities and hospitals to data centers and large-scale production plants.

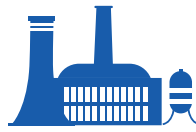
Hybrid solutions ensure uninterrupted energy while reducing costs and enhancing operational excellence. They offer a strategic advantage as an eco-friendly investment for businesses where energy continuity and efficiency are top priorities.



Factories



Wastewater Treatment Plant (WWTP)



Biogas Power Plant



Mining



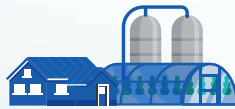
Independent Power Plants



Hotels



Shopping Malls



Greenhouses



Office Complexes



Waste Disposal Sites



Hospitals



Airports

Make a difference in your industry with **hybrid solutions**, and gain with **sustainable energy!**

SYSTEM BENEFITS

- Offers a wide range of applications, from industrial facilities to individual residences.
- Provides investment advantages by benefiting from local and international incentive programs.
- It enhances land use efficiency by utilizing unused rooftops and lands for energy production.
- Integrates with storage systems, ensuring energy availability even in non-sunny weather conditions.
- Offers solutions for rooftop, ground-mounted, and hybrid systems.
- Provides flexibility for grid-connected (on-grid) or off-grid usage.
- Ensures uninterrupted energy (off-grid) to support operational continuity during power outages.
- Delivers high investment returns due to low maintenance requirements and long lifespan.
- Remote monitoring and control systems enable real-time performance tracking and rapid intervention when needed.
- Optimizes production based on demand through smart energy management.
- Offers scalable solutions thanks to its modular structure, adapting to energy needs.
- Excess energy can be transferred to the grid, reducing the investment's payback period.
- Can be integrated with electric vehicle charging stations, supporting green mobility.
- Reduces carbon emissions, contributing to environmental sustainability.



PROJECT OPERATIONS

- Site Survey
- Preliminary Design
- Production Analysis and Feasibility
- Electrical and Structural Engineering
- Procurement Processes
- Turnkey Installation
- Formal Approvals
- Maintenance and Service Agreements



ENGINEERING SERVICES

For uninterrupted and high-efficiency electricity production in solar power plants, it is critical to regularly inspect and maintain all components, from panels and inverters to monitoring systems and energy transmission lines. Iitekno Solar has extensive expertise in advanced control, security, and remote monitoring systems for solar power plants. It provides comprehensive engineering services to ensure maximum performance of facilities.

We continuously monitor system performance using cutting-edge sensors to ensure uninterrupted energy supply.

Our systems optimize power flow, manage grid connections, and monitor system performance in real time, delivering uninterrupted energy production.

With our automation systems, you can easily control production processes, enhance system security, and maximize energy management efficiency.



PROJECT DEVELOPMENT

Success in solar power plants is achieved through well-planned and optimized projects. We deliver project-specific engineering solutions by conducting land analysis, feasibility studies, and energy efficiency assessments to design the most suitable systems. We provide full project management, including regulatory compliance, permitting, and financial evaluations, to ensure long-term and efficient investments.

Project Development Steps

- Site Selection
- Design and Engineering
- Financial Assessment
- Agricultural Survey (for SPP Installation)
- Connection Letter (Call Letter)
- Project Approvals
- EIA (Environmental Impact Assessment)
- Zoning Plan
- Zoning Implementation Plan
- Construction Permit



EPC & EC PROCESS

By providing EPC (Engineering, Procurement, and Construction) services, we ensure end-to-end project management.

For investors who prefer to manage the procurement process themselves, we offer support through EC (Engineering and Construction) services.

We take full responsibility for the project and ensure its completion in all aspects.



MAINTENANCE, REPAIR AND OPERATION SERVICES

Thanks to our regular maintenance, performance analysis, and fault detection services, we ensure that your system operates at maximum efficiency. Through monthly reports, we provide comprehensive information on total energy production, site status, fault resolution planning, and much more.

While ensuring operational continuity through remote monitoring and instant intervention capabilities, we provide our maintenance and service offerings with the highest quality standards in the industry.

With our customer-oriented service approach, we ensure the efficient and uninterrupted operation of your solar power plants.

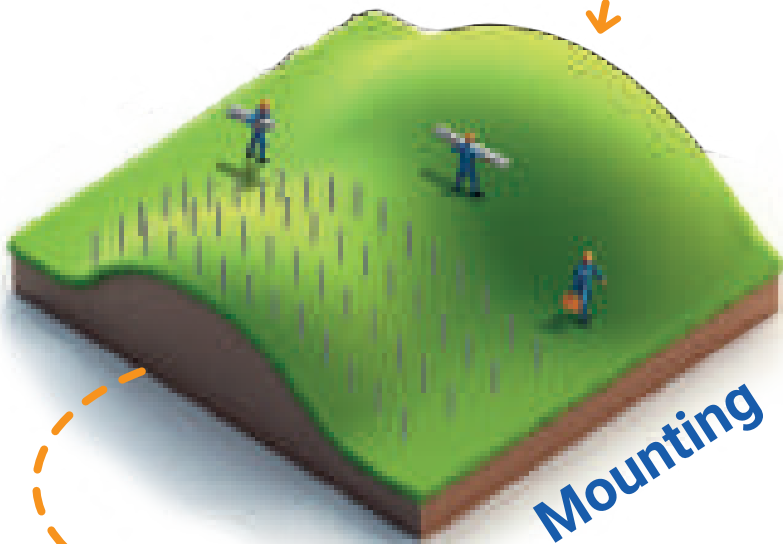
Our Service Solutions

- Long-Term Service Agreements
- Commissioning and Performance Optimization
- Periodic Maintenance and Inspection Services
- Remote Monitoring and Technical Support (24/7)
- Spare Parts and Consumable Materials Supply
- Technical Consultancy and Feasibility Services
- Solar Power Plant Operation Training
- System Status Reports

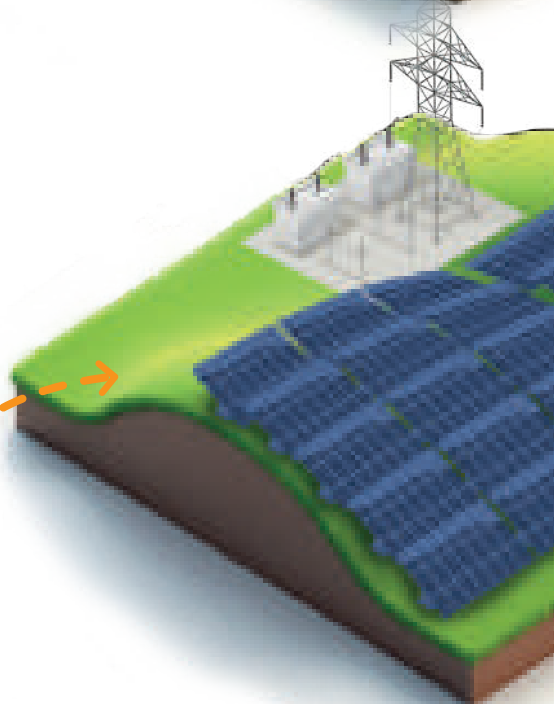




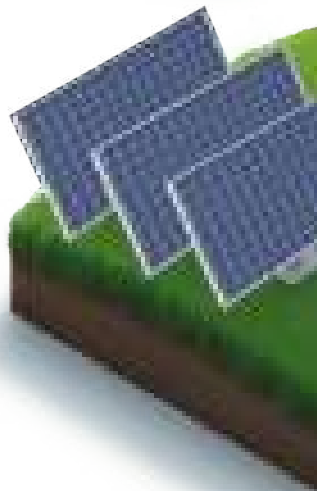
On-site Test



Mounting



Installation



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End-to-end Installation Solution

In solar power plant (SPP) projects, we provide end-to-end solutions, delivering reliable and efficient systems to investors. We manage the entire engineering, procurement, and construction (EPC) process, implementing projects on a turnkey basis. From needs analysis and site surveys to project design and system integration, we carefully plan and implement every stage.

We use the latest technologies and high-quality equipment in our solar power plant (SPP) projects for optimal efficiency and long-term performance. During the procurement process, we use world-class panels, inverters, and mounting systems to maximize energy production capacity. At the installation stage, our expert teams develop site-specific solutions to ensure the system operates at optimum performance.

We provide commissioning, maintenance, repair, and operation services for solar power plant (SPP) systems to maintain their reliability and sustainability after installation. For investors aiming to reduce energy costs, lower their carbon footprint, and achieve energy independence, Iltekno Solar's end-to-end solar power solutions offer a reliable and long-term investment.

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Project
Approval



5



Commissioning



Operation &
Maintenance

REFERENCE PROJECTS

SOLAR POWER PLANTS

With 35 years of experience and projects delivered in 25 countries, we continue to maintain our leading position in the energy sector while strengthening our presence in the field of solar energy through İlteknö Solar. To date, we have successfully completed more than 350 projects, reaching an installed capacity of 2,500 MW in renewable energy. We continue to deliver sustainable and efficient energy solutions with a strong focus on customer satisfaction in every project.

İstanbul Pendik Hospital / 500 kW



İstanbul Silivri Hospital / 100 kW



İstanbul Başakşehir Hospital / 30 kW



İstanbul Bağcılar Hospital / 800 kW



İstanbul Esenyurt Hospital / 150 kW



**Energy Efficiency Projects
at 5 Public Hospitals in Istanbul**

1.600 kWp Total Installation

- 3600 x 455 Wp HalfCut PV Modules
- 16 x 100 kWe Solar Inverters
- Hybrid system with trigeneration



REFERENCE PROJECTS

ROOFTOP SOLAR POWER PLANT / TURNKEY EPC

Lüleburgaz SPP / 950 kWp



Istanbul Technical University / 415 kWp



Muğla Gümüşdoğa / 260 kWp



Kayseri Gümüşdoğa / 900 kWp



Project Management

İtekno Solar designs, manages, and delivers renewable energy projects. We guarantee quality, identify potential risks, and provide sustainable solutions. We enhance efficiency through digitalization and make a difference with our engineering expertise. We are proud of the 276.21 MW of projects we have developed so far, guided by our principle of **"Advanced Technology, Positive Energy."**

- Anil Sezer Tourism
- Arçelik (Nevşehir)
- Arçelik (Ortaköy)
- Amerikan H. (Bodrum)
- Cantaş Kimya
- Cantaş Soğutma
- Conrad Hotel
- Demirexport (İspir)
- Gümüşdoğa
- Hane Hotels
- Koç Schools (Ürgüp)
- Koç University
- Koçtaş (Gümüşhane)
- Makmarin (Nevşehir)
- Migros (Bitlis Ahlat)
- Moment Hospital
- Otokar (Malatya)
- Özbal Hotels
- Setur Netsel (Nevşehir)
- Tek-Art (Nevşehir)

REFERENCE PROJECTS

GROUND-MOUNTED SOLAR POWER PLANT / TURNKEY EPC

Aydın Albioma Kuyucak / **2.700 kWp** (18 MW Hybrid system with Geothermal Power Plant)



Çorum Avrasya Yağ / **3.800 kWp**



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GROUND-MOUNTED SPP PROJECT

Gümüşdoğa Solar Power Plant, located in Polatlı, Ankara, was commissioned with an installed capacity of 26.6 MWe / 36.1 MWp.

The plant provides an annual clean energy production of 56,282.6 MWh, and the facility, which includes 65,650 panels, was completed in just 100 working days.

Additionally, it reduces environmental impacts by preventing 24,000 tons of carbon emissions annually and makes unused lands functional.

36,1
MWp

Turnkey
EPC

Gümüşdoğa Su Ürünleri / Ankara

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REFERENCE PROJECTS

OUR OTHER BUSINESS AREAS

In addition to our solar power plant (SPP) projects, we deliver turnkey (EPC) and automation projects with gas engine-based cogeneration and trigeneration systems. We manage the entire process from feasibility studies to commissioning, ensuring that your projects are implemented in the most efficient way. Our long-term maintenance and service agreements, as well as technical team training, ensure the sustainability of your systems.

Çırağan Palace Trigeneration Facility (İstanbul)



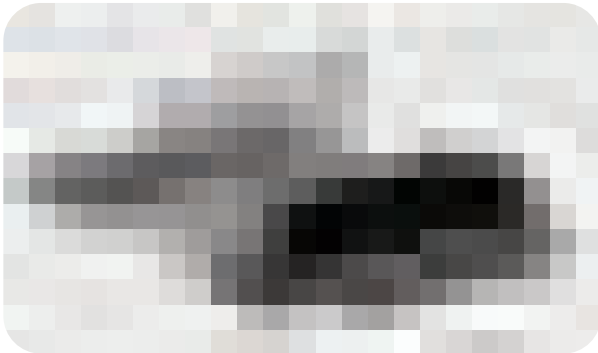
1,560 kWe installed capacity
with MWM TCG 2020 V16 gas engine

Aksa Enerji EPC Project Buhara 270 MW Relocation CCPP



Capacity: 270 MW
Engines: 28 x 20V34SG (Wärtsilä)
Turbines: 2 x 13 MW steam turbines

Aggreko Mühendislik Çözümleri Modular Power Plant Design



- 4 x B36:45V20AG Bergen Engines
- Containerized power plant solution consisting of standard 20" and 40" containers
- Shorter installation time compared to conventional power plants

Ford Automation Project Tank Storage Systems



A reliable monitoring and automation infrastructure was developed to meet the precise storage requirements of various chemical and fuel types.



HUMAN RIGHTS



LABOUR



ENVIRONMENT



ANTI-CORRUPTION

WE SUPPORT

OUR PRINCIPLE, MOVING FORWARD TOGETHER

While prioritizing customer satisfaction, İlteknö ensures an environmentally friendly and safe working environment in line with its integrated management system, which complies with ISO 9001, ISO 14001, and ISO 45001 standards. Since 2019, as a member of the United Nations Global Compact - the world's largest corporate sustainability initiative with over 20,000 signatories in more than 160 countries - İlteknö renews its commitment each year through reports that emphasize respect for human rights, environmental protection, and the fight against corruption. The company prevents workplace accidents and environmental risks through proactive approaches and delivers sustainable solutions to its stakeholders by continuously improving quality through regular audits and training.



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