

**Rooftop
Solar EPC**



**Ground Mounted
Solar EPC**

Solar Procurement



**Solar Panel
Production**

aksay  **enerji**

Your Reliable Solar EPC Partner

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3 kW - 25 kW
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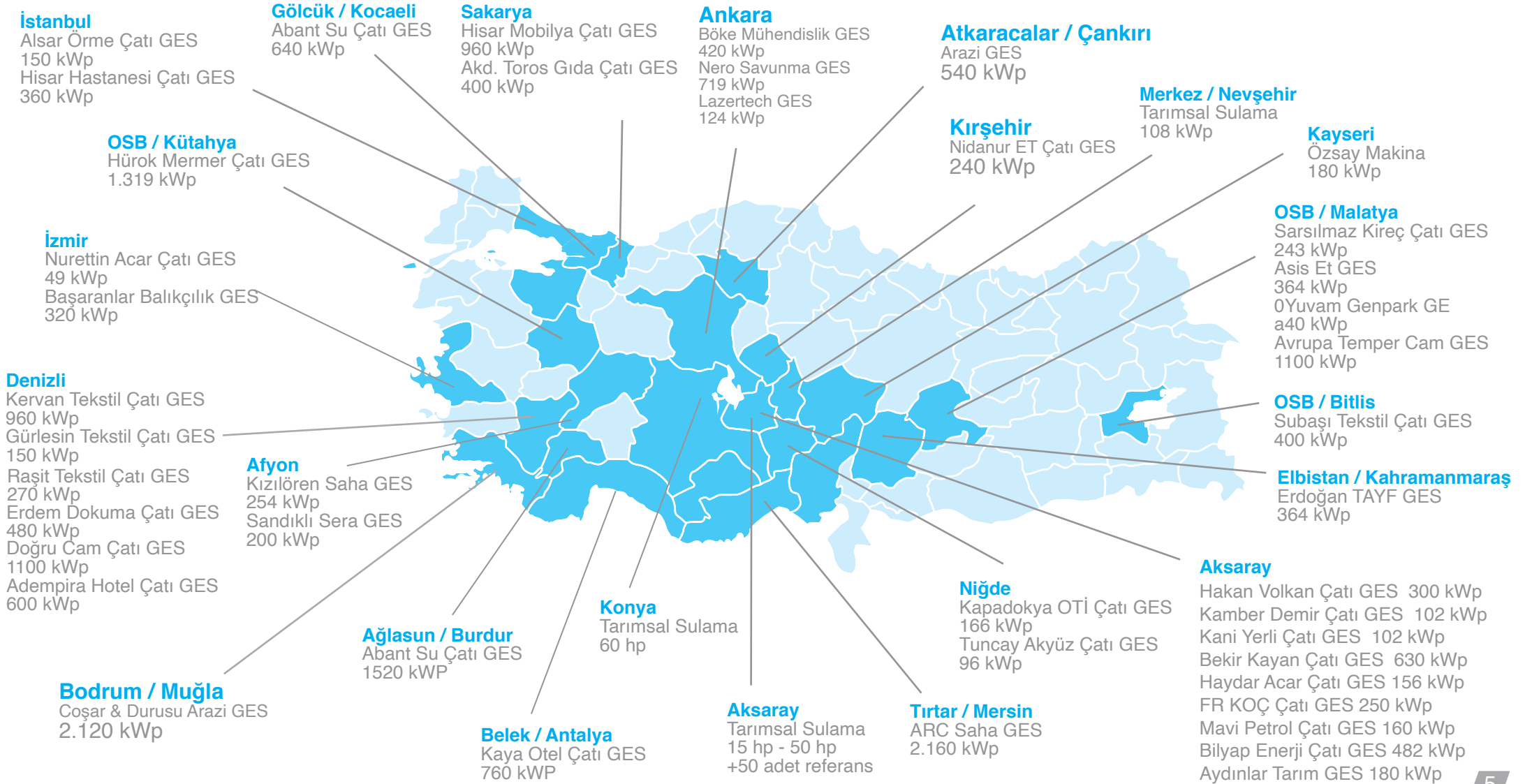
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About Us

About Us

As Aksay Energy, we provide services in engineering, projects, solar energy sector, lighting applications with solar energy, all off-grid and on-grid systems. We take place among the turkish leading companies in the solar energy by completing small, medium and large scale solar power plant projects with quality and continuity in Turkey and Middle East. We also offer turnkey projects in electricity generation with solar energy by completing all the engineering and feasibility studies in house with our expert staff who keeps up with the ever-changing and developing technology in solar energy.

We finished **134** projects of **82** customers
with **236.000** solar panels
in **6** years
all over the world



What we do?

What we do?

Project & Design

Single-line diagram, electrical and statical projects required for the application of unlicensed electricity generation in on-grid solar power plants are prepared by our experienced engineers.

In roof type and ground type applications, by making simulations in computer supported programs such as AEROTOOL and PVGIS and by calculating optimum panel quantity and panel angle, it is aimed to ensure the amortization of the investment in the shortest time. Our team, which designs unique projects for each site, does not use standard projects unlike the other companies.

Roof mechanical assembly of solar panels is subject to static project. The wind load and weight calculations that the panel will create on the roof are made by our expert engineer staff, and the reinforcement projects of risky and unbearable structures are also prepared by our engineers.

Grid Connection Aggrements

We provide a service to our investors from A to Z with our expert technical staff in unlicensed electricity generation plants. During the development phase of the grid connection, it is our priority to accelerate the project by preparing all the documents required for roof and land applications in accordance with the standards requested by the relevant distribution company. After the agreement, the first steps, which are an important stage in the realization of the project, are completed by our team, with the approval of the projects and the connection agreement.

Procurement

Solar Mounting Systems

.Aksay Energy, is a sales distributor of AEROCOMPACT which is one of the biggest companies in roof solar mounting systems production and project fields. We provide not only products but also solutions to all investors and EPC companies with the AEROCOMPACT models that steer the sector with their patented products on flat concrete roof, membrane roof, trapezoidal roof, tile roof and sandwich panel roof. With AEROCOMPACT products delivered from stock, we put into practice your SPP projects as soon as possible by providing high engineering service.

INTELLIGENT
SOLAR
RACKING

MORE
PRODUCT SOLUTIONS

MORE
FLEXIBILITY

COMPACT **FLAT**

Flat roof systems



COMPACT **PITCH**

Pitched roof systems



COMPACT **METAL**

Metal roof systems

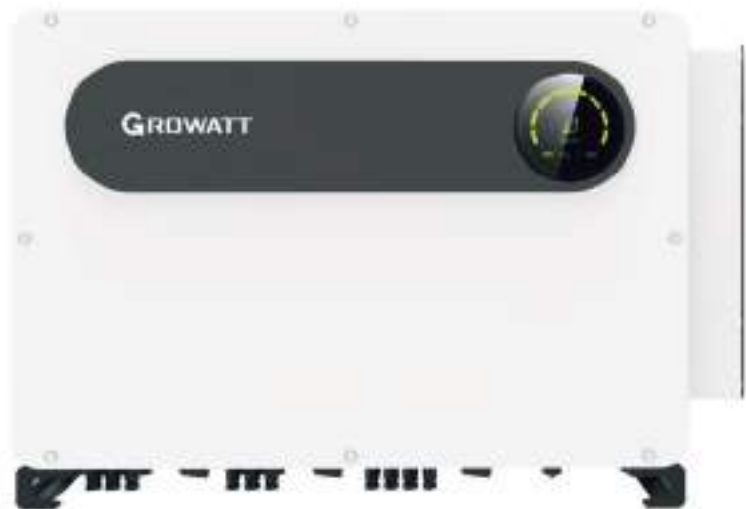


Procurement Inverter

Aksay Energy is the authorized dealer of Form Elektrik, the Turkey distributor of GROWATT inverters, which is among the top three most preferred inverter companies in the world. GROWATT inverters, which are distinguished from their competitors with their strong stock and extensive service network in on-grid and hybrid inverters, and all the optional features in other brands are offered as standard to investors with Growatt. GROWATT inverters, which are distinguished from their competitors in on-grid and hybrid inverters with their strong stock and extensive service network, are offered to investors as standard with all the optional features of other brands.



MAX 50~80KTL3 LV



MAX 100~125KTL3-X LV

Datasheet	MAX 100KTL3-X LV	MAX 110KTL3-X LV	MAX 120KTL3-X LV	MAX 125KTL3-X LV
Input data (DC)				
Max. DC voltage			1100V	
Start voltage			195V	
Nominal voltage			600V	
MPP voltage range			180V-1000V	
No. of MPP trackers			10	
No. of PV strings per MPP tracker			2	
Max. input current per MPP tracker			32A	
Max. short-circuit current per MPP tracker			40A	
Output data (AC)				
AC nominal power	100000W	110000W	120000W	125000W
Max. AC apparent power	110000VA	121000VA	132000VA	137500VA
Nominal AC voltage(range*)	400V/380V(340-440VAC)			
AC grid frequency (range*)	50/60 Hz(45~55Hz/55-65 Hz)			
Max. output current	158.8A@400V 167.1A@380V	174.6A@400V 183.8A@380V	190.5A@400V 200.5A@380V	198.5A@400V 208.9A@380V
Adjustable power factor	0.8leading ...0.8lagging			
THDI	<3%			
AC grid connection type	3W/N/PE			
Efficiency				
Max. efficiency			98.8%	
European efficiency	98.4%	98.5%	98.5%	98.5%
MPPT efficiency	99.9%			
Protection devices				
DC reverse polarity protection	Yes			
DC switch	Yes			
AC/DC surge protection	Type II / Type II			
Insulation resistance monitoring	Yes			
AC short-circuit protection	Yes			
Ground fault monitoring	Yes			
String detection	Yes			
Anti PID function	Opt			
Arc fault detection (AFCI)	Opt			
General data				
Dimensions (W / H / D)	970/640/345mm			
Weight	84kg			
Operating temperature range	-30°C ... +60°C			
Nighttime power consumption	< 1W			
Topology	Transformerless			
Cooling	Smart Cooling			
Protection degree	IP66			
Relative humidity	0~100%			
Altitude	4000m			
DC connection	H4/MC4 (Max.6mm ²)			
AC connection	OT Terminal (Max. 240mm ²)			
Display	LED/WIFI+APP			
Interfaces: RS485 / USB /PLC/GPRS/4G/WIFI	Yes/Yes/Optional/Optional/Optional/Optional			
Warranty: 5 years / 10 years	Yes /Optional			
CE,IEC62116, IEC61727, CQC, VDE0126, VFR2019, EN50549-1, C10/C11, UNE206007, G99 CEI 0-21/0-16, N4105, UNE206006,MEA, PEA, KSC8565				

* The AC voltage range and frequency range may vary depending on specific country grid standard.
All specifications are subject to change without notice.

Procurement

Material Supply

Aksay energy supplies all materials required for a power plant from 3kW to 10mW. Aksay Energy, with its strong stock infrastructure, supplies all materials used in the construction of a solar power plant such as Solar Panel, Inverter, Construction, DC Cable, AC Cable, Cable Tray, Ges Panel, Connector and even warning signs for your domestic and international projects.

Mounting Systems Solar Panel

DC Cable

Inverter

AC Cable

Grounding

Cable Tray

Electrical Panel



Ready Stock

Solar Projects

Solar Projects

As Aksay Energy, we have taken part in 134 projects of 92 customers in 7 countries of 3 continents of the world in 6 years by completing the installation of approximately 216,000 solar panels. Our references, which are an indicator of trust in us, decide to continue with Aksay Energy in power increase projects or new projects.

Fast Delivery

With our strong stock infrastructure and our experienced teams consisting of our own personnel, we can energize the system in fields up to 1 MW in 45 days. In projects for which the call letter application is ongoing, our investors can use the energy produced during the day for their own consumption, thus we aim to ensure the amortization of the investment in the shortest time.

Warranty

We provide a 30-year factory warranty for the panels, which we have completed with our own expert staff without a subcontractor, and a 5-year factory warranty for inverters, as well as an assembly warranty in Ground Mounted and Roof Type Solar projects,.

Project Partnership

Providing solution partnerships to the strongest retail energy sales companies in the sector, Aksay Energy also provides project solution partnerships to companies and individuals in the energy sector as well as investors..

Rooftop Solar Projects



Kaya Palazzo Belek Golf Hotel GES

740 kWp, 2021

aksay enerji



DAXLER
816 Adet
DAXLER - 535W
Modül Kullanılmıştır

GROWATT
4 Adet
MAX100KTL3 (100 kW)
İnvertör Kullanılmıştır

Böke Mühendislik Makina GES

442 kWp, 2022



Akinli Demir Kardeşler GES
Mandıra Trapez Sac Üzeri
Galvanizli Çelik Taşıyıcı
102 kWp, 2020
Yenikent / Aksaray





NERO Endüstri Savunma GES

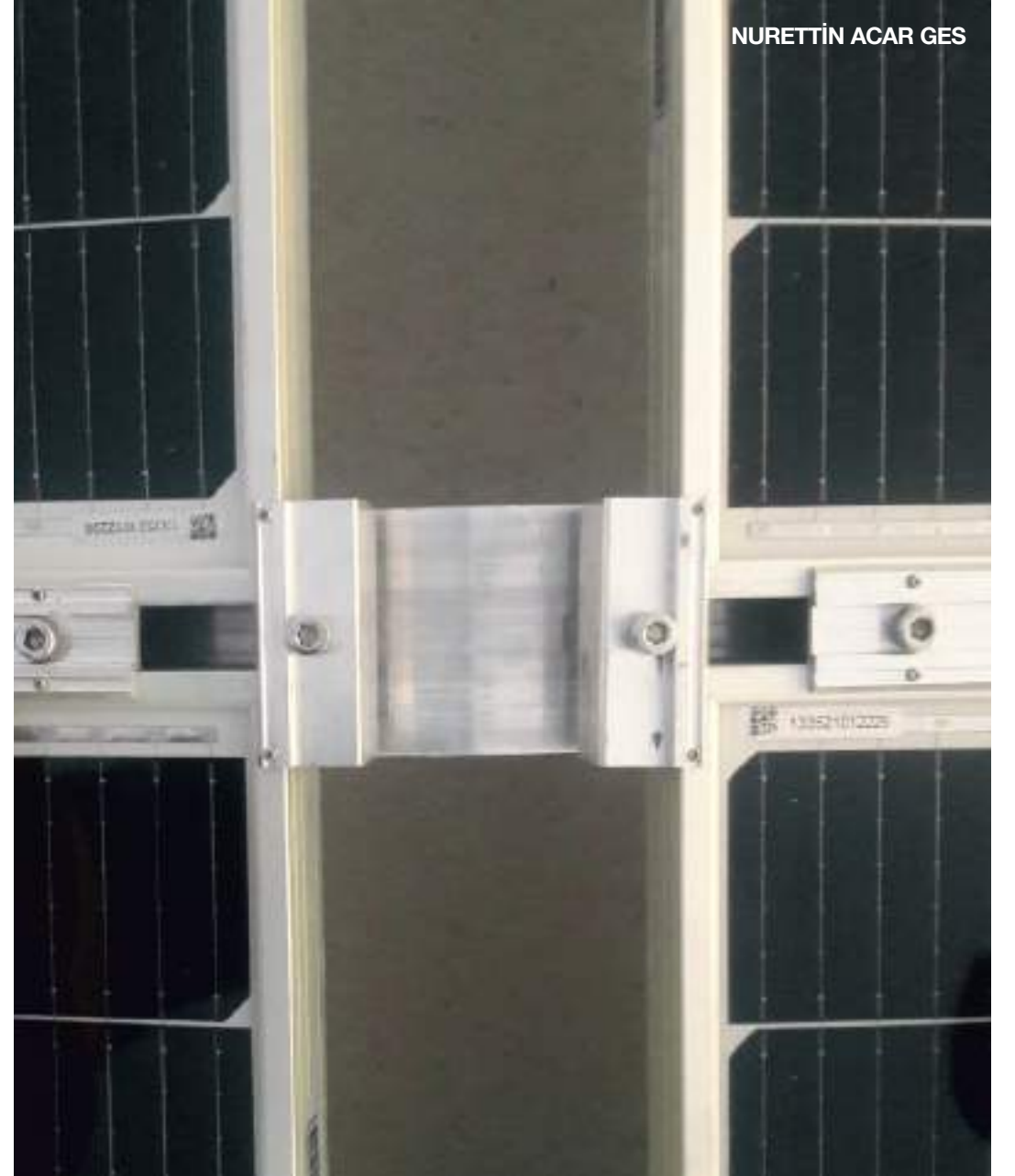
719 kWp, 2022

Anadolu OSB / ANKARA



CW Enerji

135 Adet
CWT455 - 455W
Modül Kullanılmıştır



AEROCOMPACT®

Çatı Zemini Delinmeden
Alüminyum Altyapı Konstrüksiyon
Kullanılmıştır.

Ground-Mounted Solar Projects



TIRTAR GES

1145 kWp, 2017, Tirtar / MERSİN



COŞAR GES / DURUSU GES
2180 kWp, 2017
Dereköy / BODRUM



KIZILÖREN BELEDİYESİ GES
Alka Mühendislik Ltd. Şti.
256 kWp, 2018
Kızılören / AFYONKARAHİSAR

Ground Mounted Solar Projects

As Aksay Energy, we provide services at all stages for ground-mounted type solar power plant investment. Our expert team prepares the land for application by obtaining the "dry marginal agricultural land" letters, which the investor needs before the application, from the relevant institutions. Aksay Energy engineers ensure that the investment reaches the stage where it will produce energy as soon as possible by following all bureaucratic procedures, respectively, before and after the application, which starts with the purchase of the land and ends with the Solar Energy Systems acceptance.



Solar Irrigational Projects



ABDULAZİZ YILMAZ TARIMSAL SULAMA GES

60 HP MOTOR, 73 kWp, 2021, Akhan / AKSARAY



MEHMET AKDERE TARIMSAL SULAMA GES

200 HP MOTOR, 261 kWp, 2021, Yenikent / AKSARAY