



Generate Your Own Electricity

Generate, use and store your own electricity
with your off-grid **Solar Electric System**.

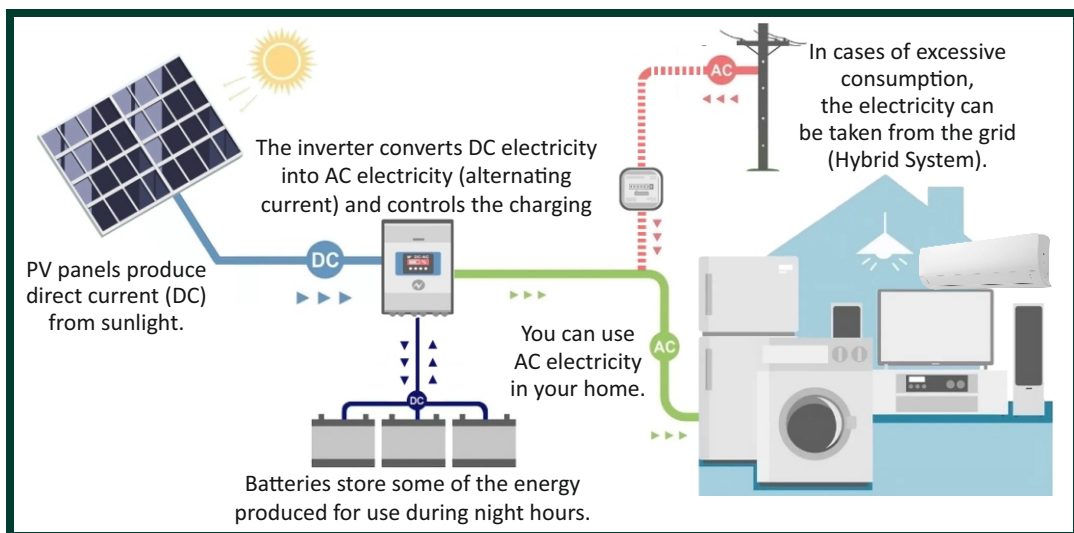
Solar panels could
increase the value
of your home by 14%

**You do not pay any fees
when using the electricity you produce!**

Generating Your Own Electricity:

A Solar Electricity System is a system that you generate your own electricity from sunlight using solar panels, independent of the electricity grid. It generates DC electricity (Direct Current) using PV (photovoltaic) panels, stores it in batteries, and converts it into usable AC electricity (Alternating Current). It consists of four basic elements:

- * Solar PV panels,
- * Inverter (with charge controller),
- * Battery,
- * Cable-connector assembly.



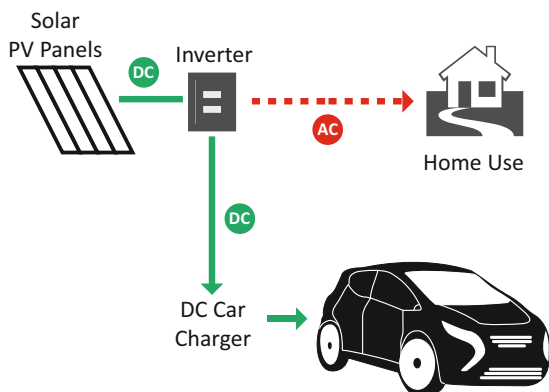
**WITH YOUR OWN ELECTRICITY GENERATION SYSTEM,
YOU WILL NOT EXPERIENCE POWER OUTAGES !**

Roof, Garage, Balcony, Pergola, Garden, Wall... Where you want!



In addition to installing a “**Solar Home Electricity Generation System**” for all your home's electricity needs, there are also many special application options such as “**Solar Electric Vehicle Charging Station**”, “**Solar Air Conditioner**”, “**Solar Generator**”.

Electric Vehicle (EV) Charging Station

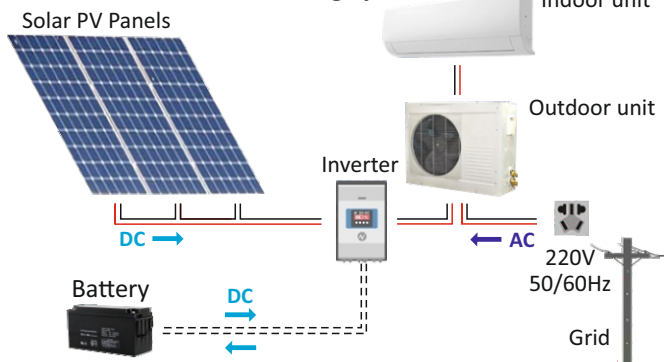


You can charge your electric car without paying any fees. If you want, you can use the electricity you generate for your home or garden when you're not charging your car.



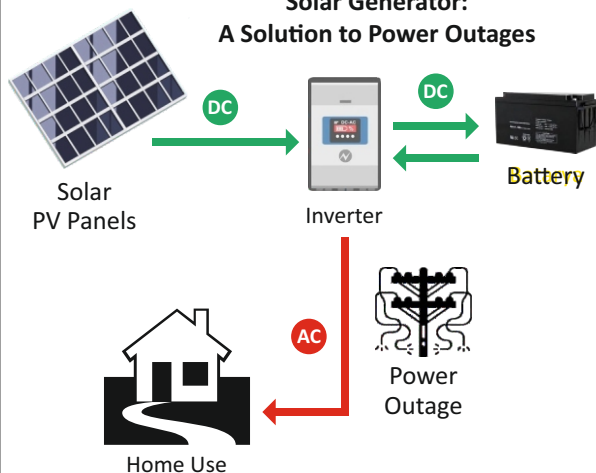


Solar Powered Air Conditioning System



During the day, you can run your air conditioners directly from the panels without paying any fees. Alternatively, you can store the power in batteries for nighttime use.

Solar Generator: A Solution to Power Outages



With a budget-friendly system, you can avoid power outages and use the electricity you generate for other needs during non-outage periods.

Installing your own electrical power system will contribute to your life in many ways:

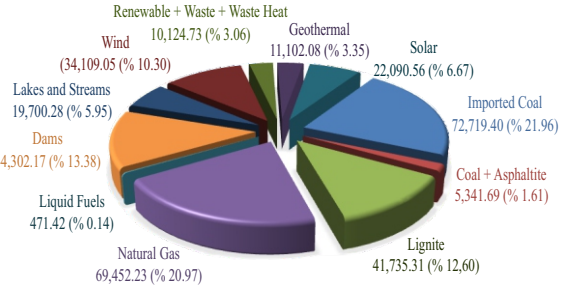
- You use the electricity you generate yourself, and you don't pay for it.
- You won't be affected by price increases.
- You won't experience power outages.
- You won't experience voltage fluctuations due to voltage spikes and drops. Your electrical appliances will operate more efficiently and last longer.
- Your home's value can increase by up to 14%.
- It reduces dependence on fossil fuels and leads to a smaller carbon footprint. It contributes to mitigating climate change. It protects our water and the environment.

It is in our hands to protect our future, our children, our nature, our health and our money with the Solar Energy.

36% of Türkiye's electricity production still comes from coal-fired thermal power plants.

Each year, these plants cause the following:

- The use of hundreds of millions of cubic meters of water,
- Tens of billions of Euros in healthcare costs,
- The contamination of metals such as mercury into our soil and water,
- The release of large amounts of carbon dioxide into the atmosphere.



Türkiye's 2023 Electricity Generation Resources (GWh)
(1 GWh = 1,000 MWh = 1,000,000 (kWh))



In the DOF (Dalaman Ortaca Fethiye) region, air conditioning use is quite high. The estimated total electricity consumption and system requirements for a four-bedroom apartment (3+1) using a 12,000 BTU air conditioner for 8 hours per day, a villa (type 1) using an 18,000 BTU air conditioner for 10 hours per day, and another villa (type 2) using a 24,000 BTU air conditioner for 10 hours per day are shown below:

| House Type | Estimated Monthly Consumption | Average Solar PV Panels (545 W) | Total Inverter Capacity | Total Battery Capacity |
|--------------|-------------------------------|---------------------------------|-------------------------|------------------------|
| 3+1 Flat | 634 kWh | 8 panels | 5 kWh | 12 kWh |
| Villa Type 1 | 1034 kWh | 14 panels | 9 kWh | 20 kWh |
| Villa Type 2 | 1520 kWh | 20 panels | 13 kWh | 30 kWh |

In this calculation, grid electricity usage is disabled. In Off-Grid Solar Power Systems, grid power is generally kept as a reserve in case of excessive electricity consumption and is automatically activated when necessary. These types of systems are called Hybrid Systems.

Establishing an efficient Solar Electricity Generation System that meets your expectations, and fits your budget requires technical knowledge and skill.



DOF Solar Electric Systems

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