



LET'S GO SOLAR!

ENVIROSOL

PRELIMINARY SOLAR SYSTEM DECISIONS



OFF-GRID SOLAR SYSTEMS

Off-grid systems provide electricity independent from utility grid power.



GRID-TIED SOLAR SYSTEMS

Grid-tied systems feature an inter-connection with the utility grid.



HYBRID SOLAR SYSTEMS

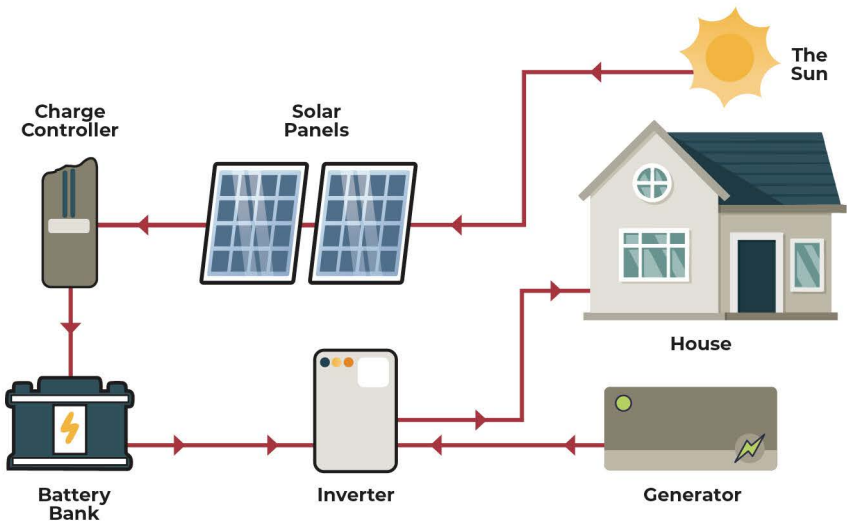
Hybrid systems combine the benefits of both systems.



OFF-GRID SOLAR SYSTEMS

Off-grid systems provide electricity independent from utility grid power.

Off-grid solar systems provide electricity to power residences, businesses, agricultural buildings, and remote cabins and get-aways—all without being connected to grid power. Solar panels charge a battery bank while an inverter (converter) draws DC power out of the batteries to produce standard electricity.



Common Off-Grid Goals:

Energy Independence/Off-Grid Living
Reliable, Constant Power | No Recurring Monthly Bill
Power for Remote Locations | Survivalism/Prepping

Off-Grid Challenges:

Higher Upfront Cost | Requires Backup Generator



OFF-GRID BENEFITS

II—Initial Investment

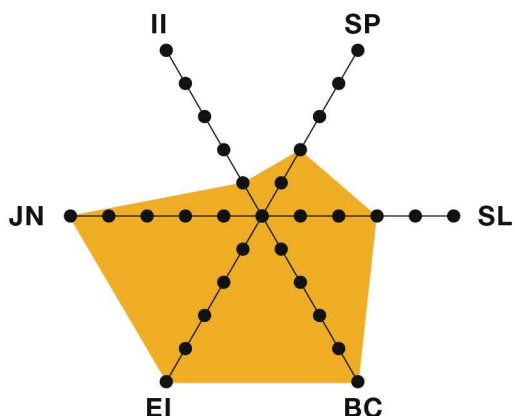
SP—System Payback

SL—System Longevity

BC—Battery Capacity
/Backup Power

EI—Energy Independence

JN—Jealous Neighbors

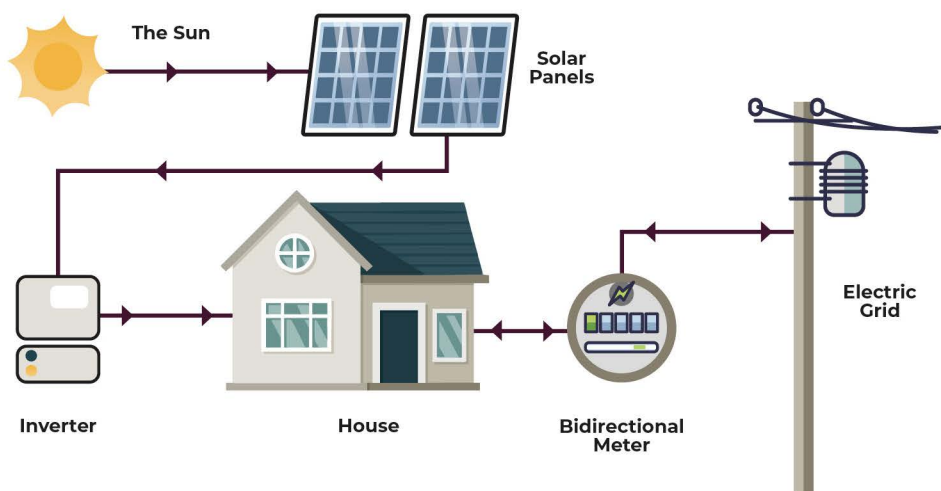




GRID-TIED SOLAR SYSTEMS

Grid-tied systems feature an inter-connection with the utility grid.

Grid-tied systems allow you to first consume your own solar power and push the excess out on the line for your neighbor down the road (yes, he'll be paying for it). Your meter will literally spin backwards! Or when your solar array isn't producing enough power, the balance will be drawn from the grid.



Common Grid-Tied Goals:

Strong Return on Investment | Next Generation Investment
Substantially Reduced Electric Bills | Clean Energy Contribution
Tax Credits/Federal Grants | Business/Agricultural Investment

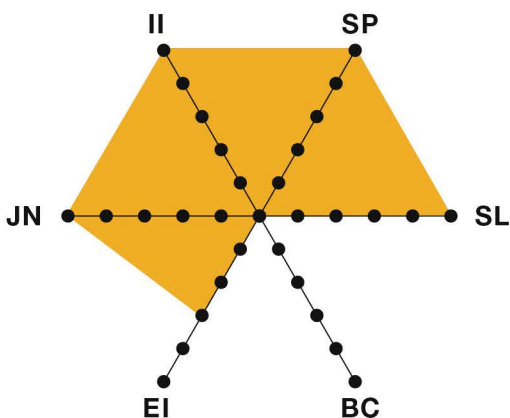
Grid-Tied Challenges:

No Backup Power During Outages | Net Metering Variations



GRID-TIED BENEFITS

- II—Initial Investment
- SP—System Payback
- SL—System Longevity
- BC—Battery Capacity /Backup Power
- EI—Energy Independence
- JN—Jealous Neighbors

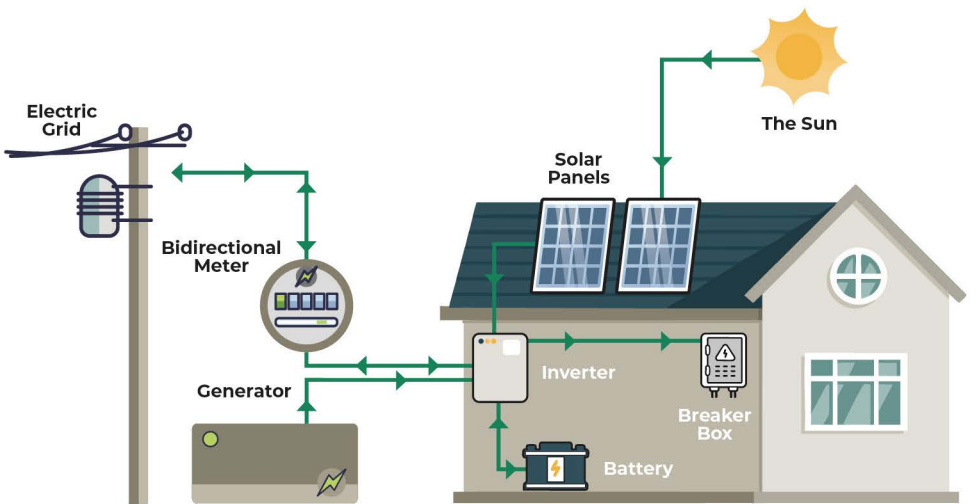




HYBRID SOLAR SYSTEMS

Hybrid systems combine the benefits of both systems.

A hybrid is grid-tied with battery backup. Incoming power from your solar panel array supplies electricity for your loads while any excess power is pushed out to utility grid lines. In the event of a power outage, solar power automatically transfers to battery charging. All electrical circuits wired into your critical loads panel (see diagram below) will continue to function smoothly.



Common Hybrid Goals:

Energy Independence | Substantially Reduced Electric Bills
Backup Power During Outages | Energy Time-of-Use Regulation
Peak Power Consumption Shaving | Tax Credits

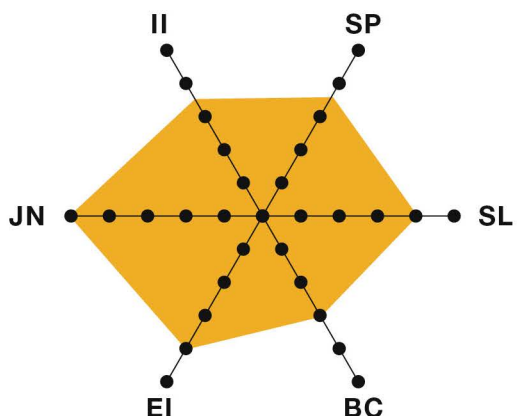
Hybrid Challenges:

Increased Costs (Battery Bank)



HYBRID BENEFITS

- II**—Initial Investment
- SP**—System Payback
- SL**—System Longevity
- BC**—Battery Capacity /Backup Power
- EI**—Energy Independence
- JN**—Jealous Neighbors



Compare Solar System Benefits

				
System Type:	Off-Grid Residential	Grid-Tie Residential	Grid-Tie Commercial/Ag	Hybrid
Small System Cost*	\$12-30,000	\$15-30,000	\$50,000 +	\$30,000
Large System Cost*	\$50,000 +	\$40,000 +	\$150,000 +	\$70,000 +
Grid-Connected	No	Yes	Yes	Yes
Battery—Backup power during grid outages)	Yes	No	No	Yes
General Payback Time (ROI)**	Cost-neutral	5-12 years	2-9 years	7 years cost-neutral
Typical Battery Autonomy (Hours)	48-72	N/A	N/A	6-24

*Solar system costs will vary tremendously based on your location, goals, and system size. These price ranges reflect a common range. Your actual cost could be higher or lower.

**Varying tax credits, net metering policies, grid electricity costs, and installation variables all factor into our payback calculations. These numbers reflect the common range we see.

Which Is Best for You?

Choosing the right solar system usually boils down to a choice of prioritizing energy storage/backup power (batteries) or a faster payback. Grid-tie systems provide the most financial benefits while off-grid systems shine in stand-alone applications where constant power is crucial. Hybrid systems have become very popular for combining the benefits of both.



EMPOWER | IMPROVE | SIMPLIFY

We've made it our business to **empower** our customers with the information you need to make wise solar decisions. With more than 70,000 hours of combined experience in the solar industry since 2010, we stand on the principles of continuous **improvement**, creativity, and excellence. We hope to **simplify** the process of choosing the right system to meet your energy needs!



ENVIROSOL



sales@goenvirosol.com



844-SOL-POWER

330-852-5206



2465 Ohio 39 Sugarcreek OH 44681

Stop In To See Us At Our Showroom!