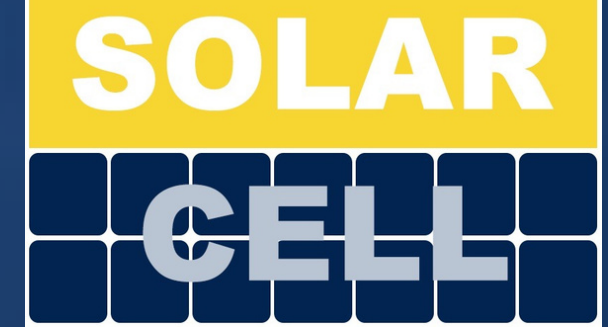




HOW SOLAR WORKS

537 SAN PEDRO, BUSTOS, BULACAN 3007
(044) 931-1868 / (0927) 344 2366 / (0950) 247 7347

OUR SERVICES

- Solar Panels Systems Supply and Installation
- Solar Street Lights
- Solar Engineering
- Electrical Design and Planning
- Net-Metering Assistance

 info@solarcell.com.ph

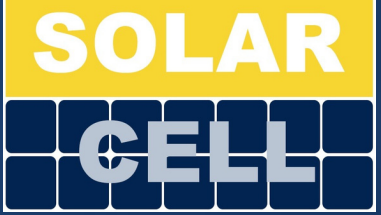
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THE 3 MAIN TYPES OF SOLAR SYSTEM



ON-GRID

Also known as Grid-Tied System. On-grid means your solar system is tied to your local utility's GRID. This is what most residential homes will use because you are covered if your solar system under or over produces with regards to your energy needs.



HYBRID ON-GRID

Hybrid solar systems generate power in the same way as a common grid-tie solar system but use special hybrid inverters and batteries to store energy for later use. This ability to store energy enables most hybrid systems to also operate as a backup power supply during a blackout, similar to a UPS system.



OFF-GRID

Also known as a stand-alone power system (SAPS). It means you are not connected in any way to your grid's power system or utility company. This is appealing because you are 100% self-sustaining your energy use. However, there are disadvantages because off-grid systems require you to purchase back-up battery which can be expensive.



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HOW DOES GRID-TIED SYSTEM WORK?

SUN

- Radiates light to solarcell panels
- Operates everyday
- Peak Hours: 9AM - 3PM

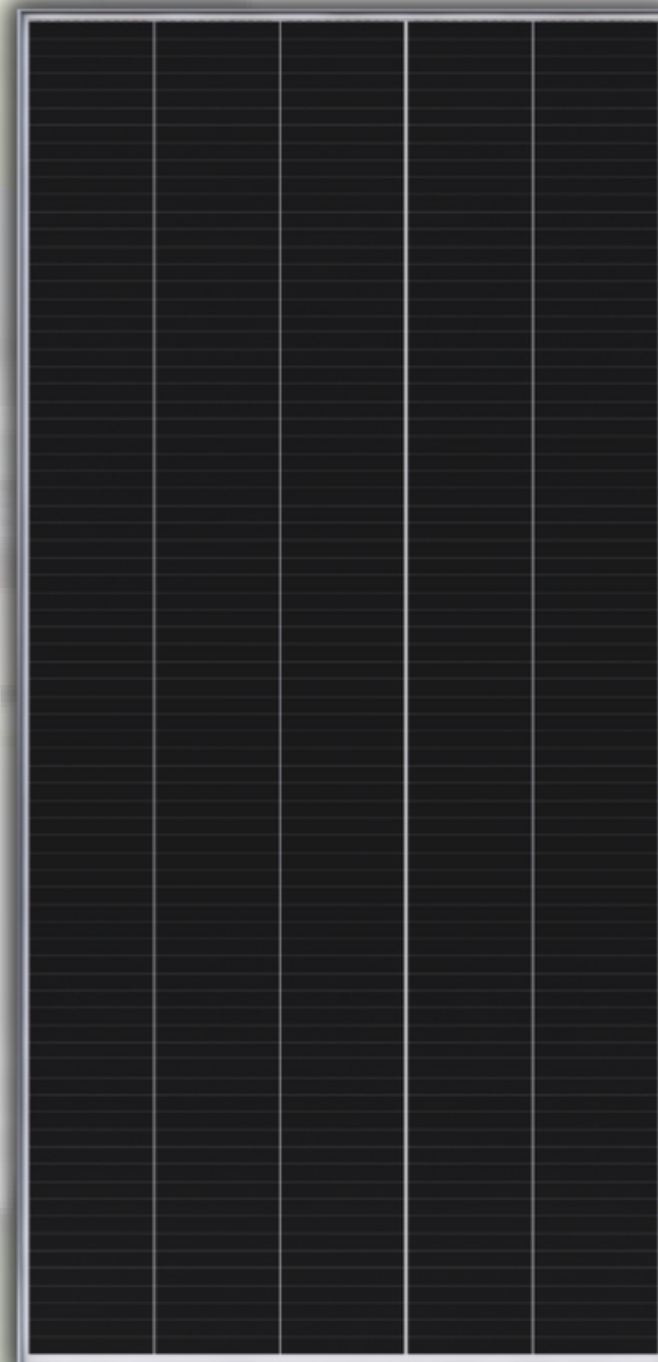
SOLARCELL PANELS

- Converts light into DC electricity (Electricity coming from Batteries)
- Sunpower Warranty:

A Better Product. A Better Warranty.

SunPower Performance 5 UPP BF panel is backed by the SunPower Performance UPP panel warranty providing 25-year product and power coverage.

• Year 1 Minimum Warranted Power Output	98.0%
• Maximum Annual Degradation	0.45%
• Year 25 Warranted Power Output	87.2%



INVERTER

- Transform power from DC to AC (Electricity from the grid)
- Syncs the power to Meralco
- **1st Priority: SOLAR**
- **POWER PRODUCED = SAVINGS**





HOW DOES GRID-TIED SYSTEM WORK?



BEFORE SOLAR

- Electric Bill
- Monthly Average Bill : **Php 10,000**
- Annual Average Bill : **Php 120,000**



SUN

- Radiates light to solarcell panels
- Operates everyday
- Peak Hours: 9AM - 3PM

HOW DOES GRID-TIED SYSTEM WORK?

5KW GRID-TIED

- Electric Bill
- Monthly Average Bill : **Php 6,500**
- Annual Average Bill : **Php 78,000**

Amount : **Php 295,000**

ROI : **4 years**

**SUNPOWER UPP 5
535W X 10 PANELS**



BEFORE SOLAR

- Electric Bill
- Monthly Average Bill : **Php 10,000**
- Annual Average Bill : **Php 120,000**

AFTER SOLAR

- Electric Bill
- Monthly Average Bill : **Php 3,500**
- Annual Average Bill : **Php 42,000**

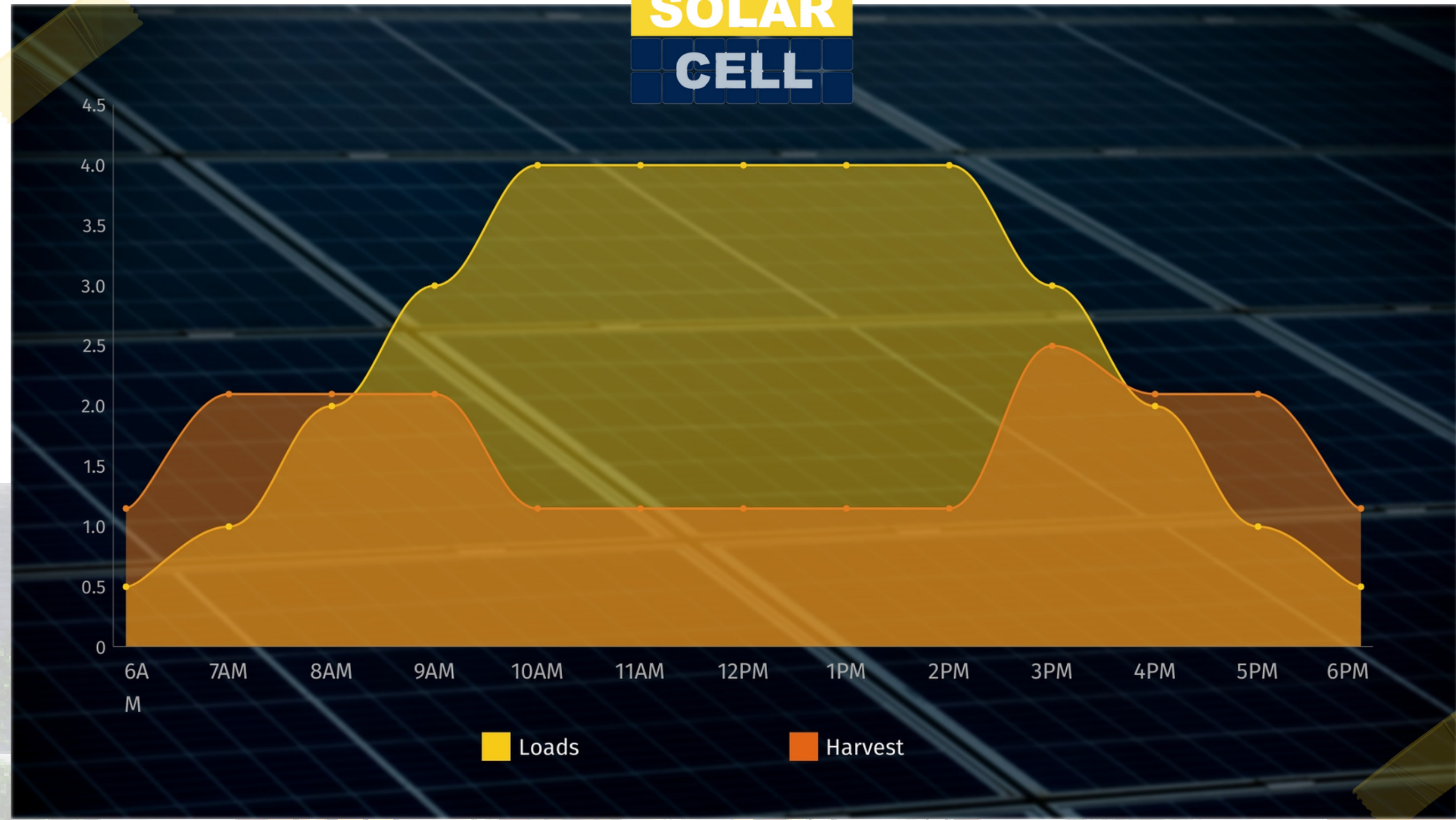


***** EXCESS SOLAR POWER CAN BE SOLD TO MERALCO THROUGH NET METERING**



RESIDENTIAL DAILY CONSUMPTION

SOLAR CELL



6AM	7AM	8AM	9AM	10AM	11AM	12PM	1PM	2PM	3PM	4PM	5PM	6PM
												
1.15kw	2.1kw	2.1kw	2.1kw	1.15kw	1.15kw	1.15kw	1.15kw	1.15kw	2.5kw	2.1kw	2.1kw	2.1kw

SOLAR CELL

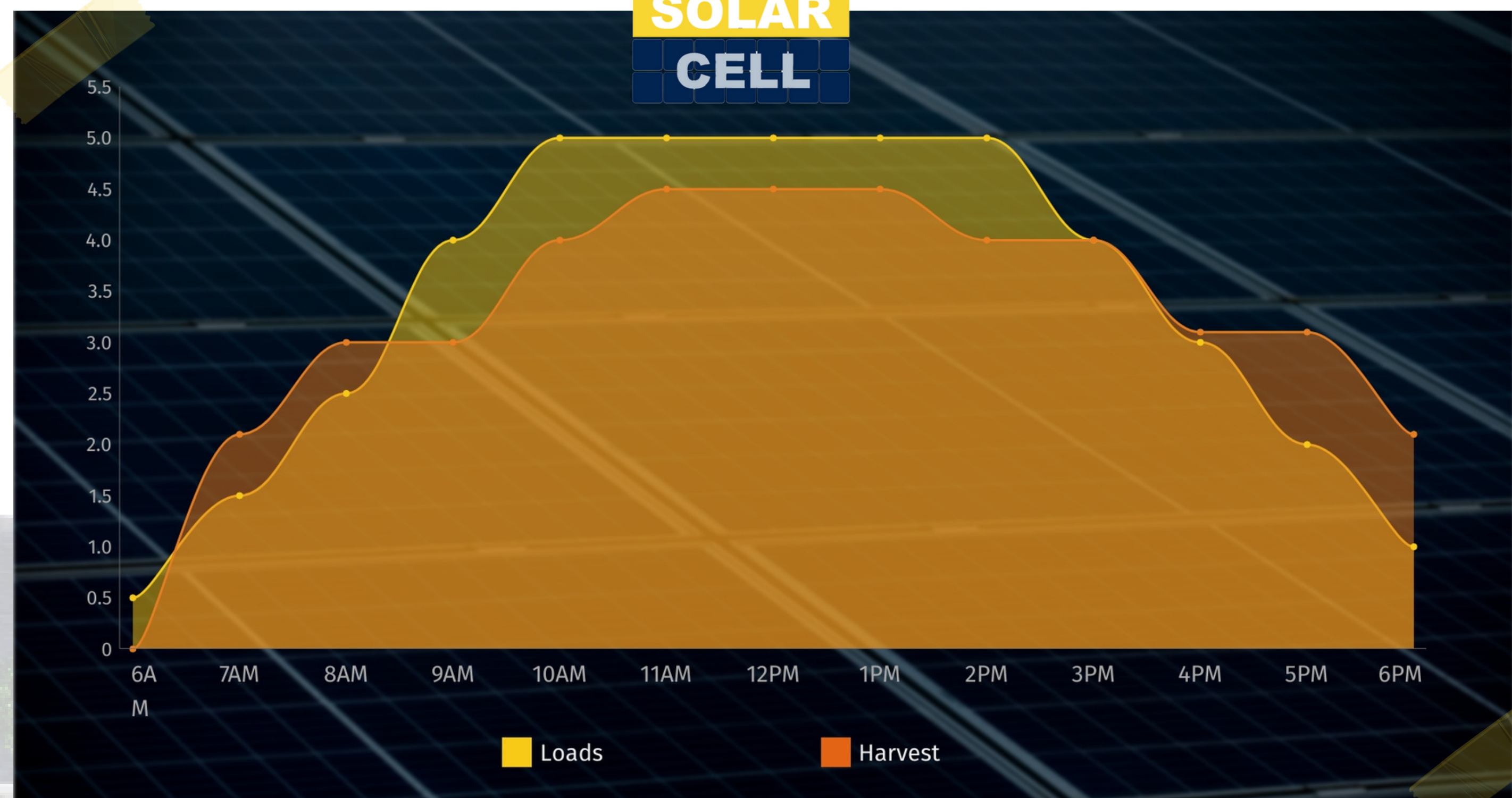


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COMMERCIAL DAILY CONSUMPTION

SOLAR CELL

SOLAR CELL

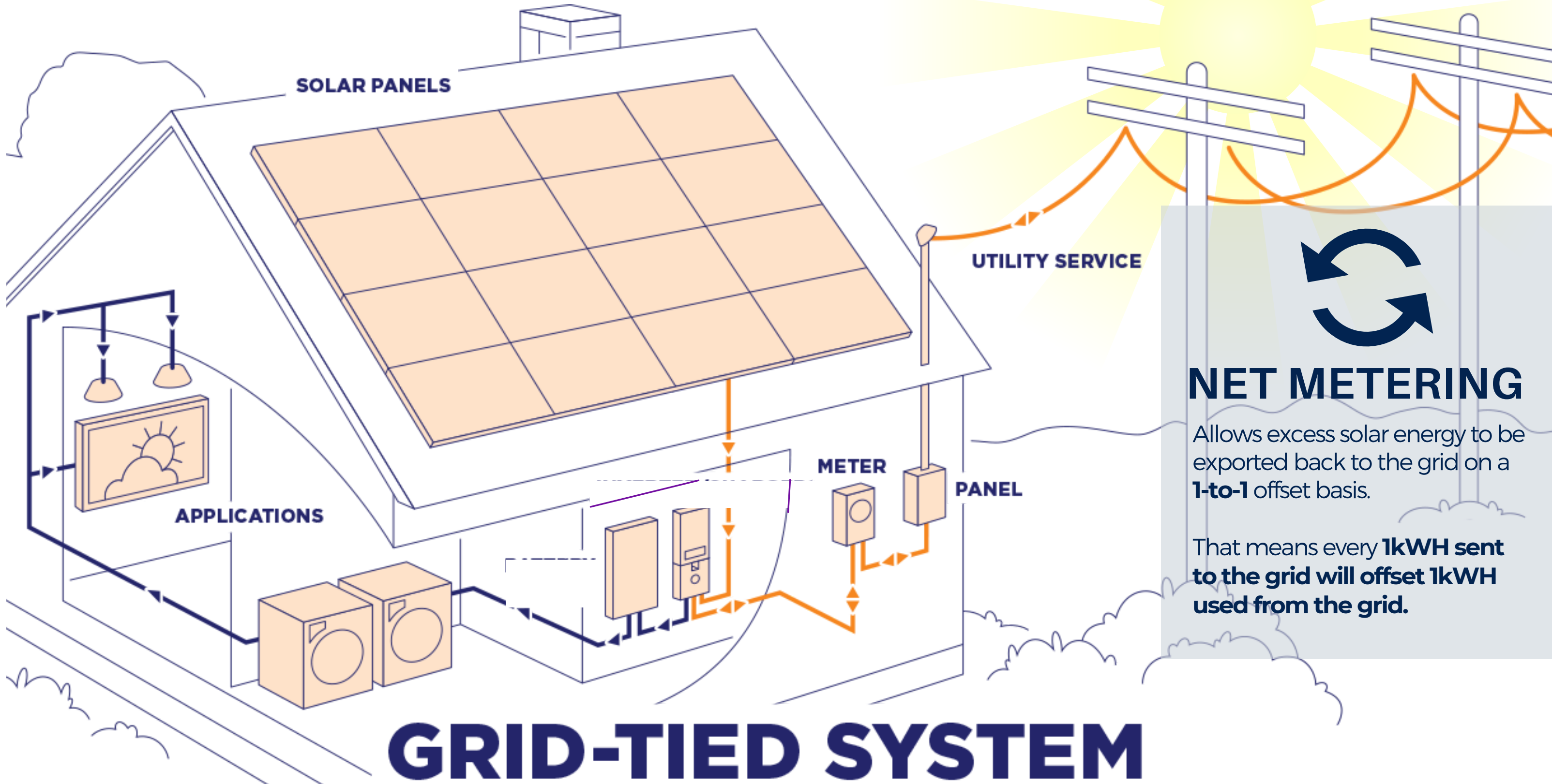


6AM	7AM	8AM	9AM	10AM	11AM	12PM	1PM	2PM	3PM	4PM	5PM	6PM
0kw	Air Conditioner Coffee Maker CCTV Camera	Air Conditioner Computers Printers Telephones CCTV Camera	Air Conditioner Computers Printers Telephones CCTV Camera	Air Conditioner Computers Printers Telephones Electric Fan CCTV Camera	Air Conditioner Computers Printers Telephones Coffee Maker CCTV Camera	Air Conditioner Computers Printers Telephones CCTV Camera	Air Conditioner Computers Printers Telephones Coffee Maker CCTV Camera	Air Conditioner Computers Printers Telephones Electric Fan CCTV Camera	Air Conditioner Computers Printers Telephones Electric Fan CCTV Camera	Air Conditioner Computers Printers Telephones CCTV Camera	Air Conditioner Computers Printers Telephones CCTV Camera	Air Conditioner Coffee Maker CCTV Camera
	2.1kw	3kw	3kw	4kw	4.5kw	4.5kw	4.5kw	4kw	4kw	3kw	3kw	2.1kw



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HOW DOES NET METERING WORK?



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- Radiates light to solarcell panels
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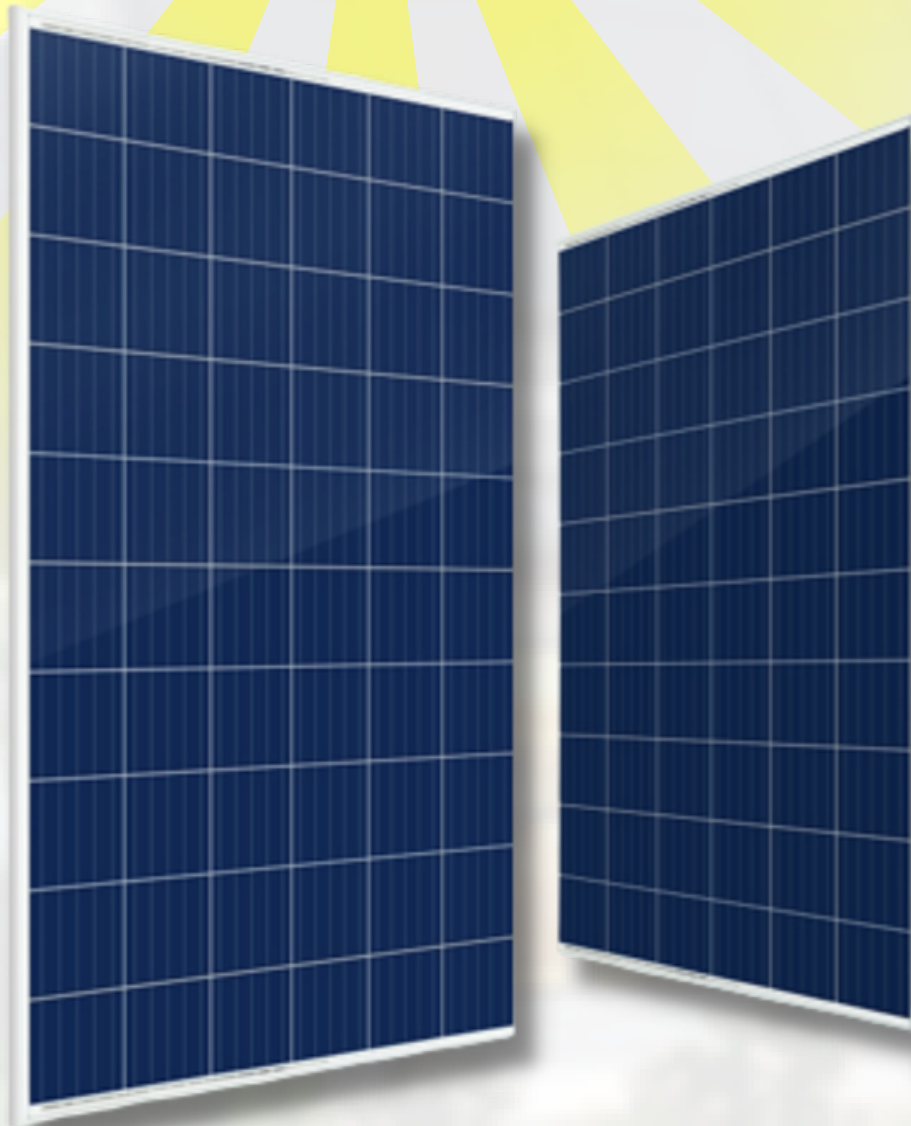
HOW DO HYBRID OFF-GRID SYSTEM WORK?

SOLAR INVERTER (HYBRID OFF-GRID INVERTER)



BATTERIES

- Store excess power from Solar Panels
- Can be used as a back-up power or main power
- Lead Acid/Gel Type Deep Cycle or Lithium Batteries
- Lead Acid Batteries Warranty : **1 Year**
- Life Span : **3 Years**



SOLAR PANELS



SUN

- Radiates light to solarcell panels
- Operates everyday
- Peak Hours: 9AM - 3PM

HOW DO HYBRID OFF-GRID SYSTEM WORK?

SOLAR PANELS

SET-UP 1:

- 1st - **SOLAR**
- 2nd - **BATTERY**
- 3rd - **MERALCO**

SET-UP 2:

(BLACKOUT)

- 1st - **SOLAR**
- 2nd - **MERALCO**
- 3rd - **BATTERY**



CHARGES BATTERY
FROM SOLAR

SUPPLIES POWER IF
SOLAR IS NOT
ENOUGH





"WHERE THERE'S SUN, THERE'S SOLARCELL"



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