



MERALCO

Powering OUR Brighter Tomorrow

Presentation Date: April 20, 2023

BARNEN'S FORSTA BOK



Energy efficiency translates to the mission of DOE and Meralco

Our mission:
***empower customers* with the knowledge and tools to make brighter choices and sustainable habits, ultimately realizing an improved lifestyle today and for future generations**



Manage consumption



Empower more communities and the industry



Achieve a more comfortable and sustainable way of living



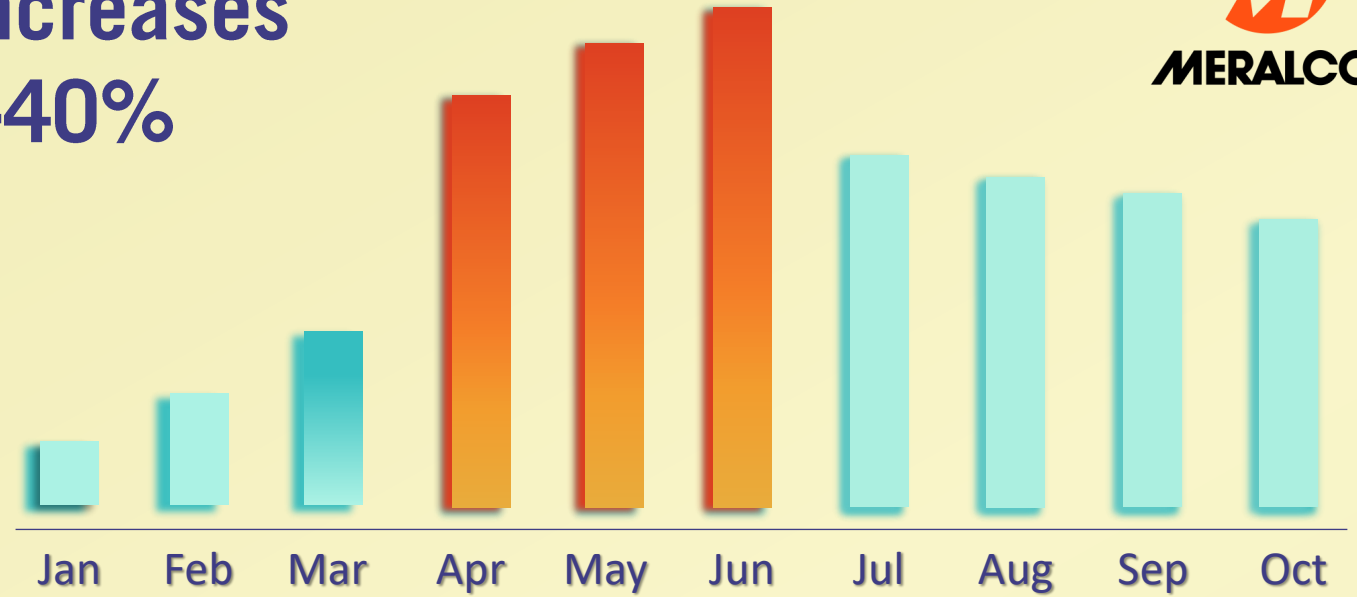
How?

Energy Efficiency At Home





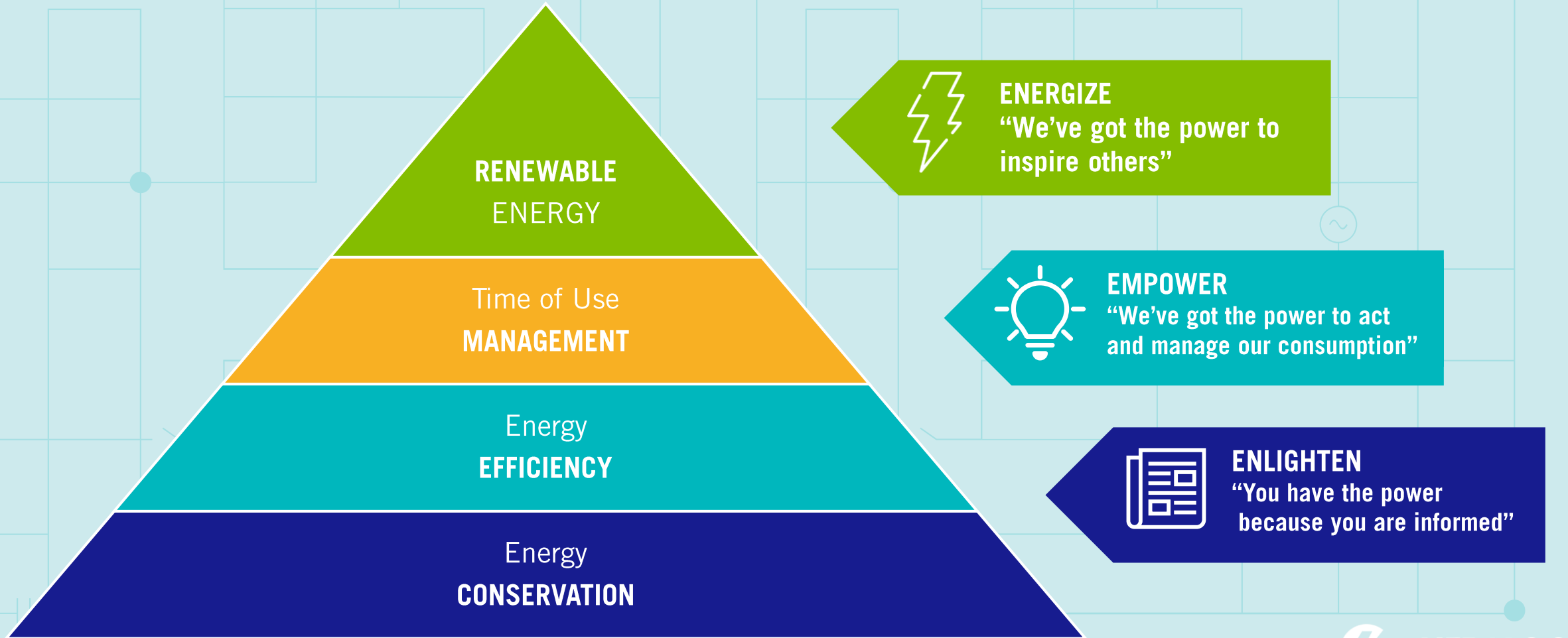
Electricity consumption increases during the summer by 10-40%



Cooling appliances consume the most



Use the Energy Management Pyramid to help manage bills and consumption at home.





Energy Efficiency & Conservation at home



MERALCO
BRIGHT
IDEAS

Computation on savings are based on the average June 2021 to July 2022 effective rate for all Meralco residential customers

Refrigerators contribute significantly to a home's overall energy consumption

Usually plugged in 24/7

Uses a compressor to change temperature

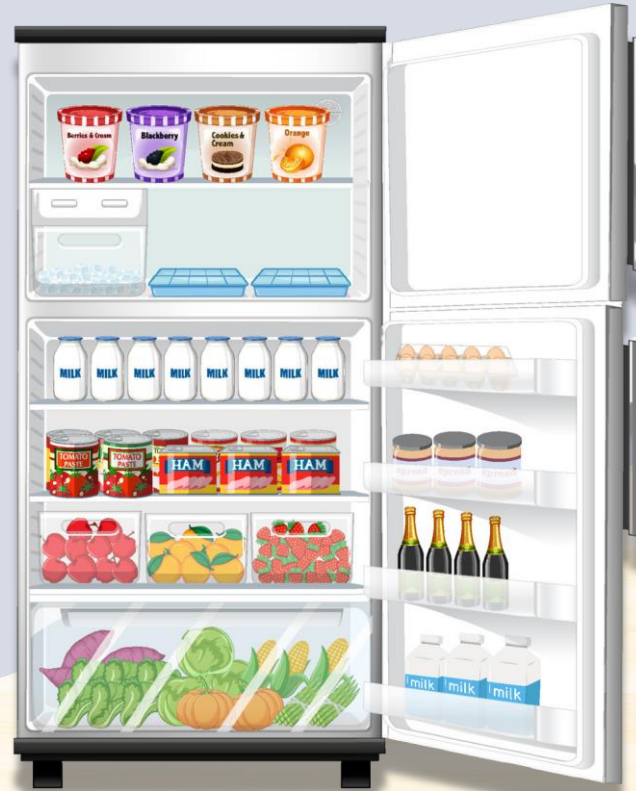


There are different types of ref's, each with their own features to support different needs and lifestyles

Single Door



Top/ Bottom Freezer



Two Door

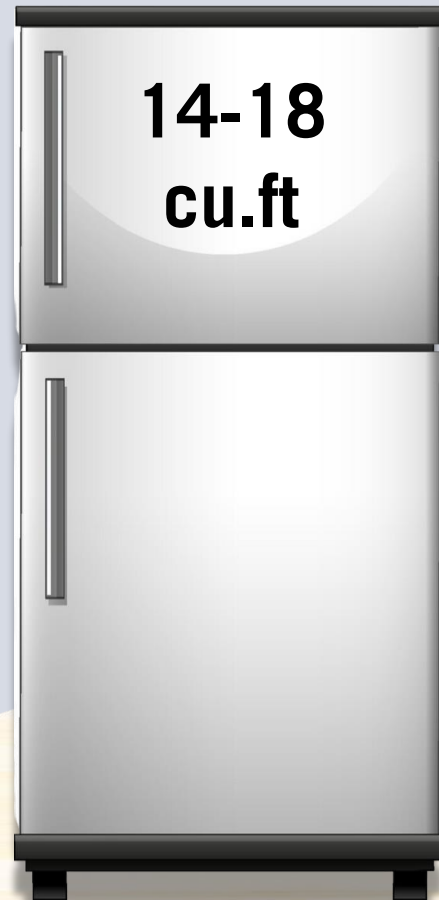


French Door





Ultimately, it all cools down to getting the right appliance for your needs and using it correctly.





Choose the right size.

Too small = compressor working harder

Too big = wasted electricity

**19-23
cu.ft**

**14-18
cu.ft**

**11-13
cu.ft**

**7-10
cu.ft**





Air leaks = longer time to reach your set temperature
Eliminate air leaks to save up to P434/month!
(tested using a 7cu.ft. conventional fridge for 24 hours)





Avoid putting warm food inside the ref.
Cool your food first to save up to P20/month!
(tested using a 7cu.ft. conventional fridge for 24 hours)





Overloaded fridge = blocked air vents

Let the cool air circulate and save up to P248/month!

(tested using a 7cu.ft. conventional fridge for 24 hours)



ORGANIZE YOUR REF
DON'T OVERLOAD

Save up to
P248/mo.

Per Meralco Power Lab test on
81W rated power 7 cu. ft. direct cooling ref





If you ref's not full, don't use high settings.
Lower your ref settings and save up to P202/month!
(tested using a 7cu.ft. conventional fridge for 24 hours)



REF ON MID SETTING UP TO
P202/mo.
SAVINGS

Per Meralco Power Lab test on



Optimize your consumption = Upgrade to an inverter

Save up to P405/month!

(tested using a 7cu.ft. conventional fridge vs a 7cu.ft. inverter for 24 hours)



Air conditioners have the potential to contribute the biggest chunk of your homes' consumption.

Uses a compressor to change temperature of the entire room or space.





Get the right size

Right-sizing helps you avoid extra costs and wasted energy

(tested using a 1HP window-type conventional AC for 8 hours at night)



**1HP in 18-22 sqm
P755/month**



DOE recommended right sizing:

1HP in 18-22 sqm



1.5 HP in 23-27 sqm



2HP in 28-40 sqm





Air Leaks = longer time to cool the room

Close the doors and windows when using the AC and save up to: P731/month!

(tested using a 1HP window-type conventional AC in an 18sqm room for 8 hours at night)





Colder settings = higher consumption

Set your AC's thermostat at a comfortable level and save up to P1,017/month!

(tested by switching from 18°C to 25°C using a 1HP window-type conventional AC for 8 hours at night)





Dirty Appliances = Higher energy to operate

Clean your Aircon's air filter every 2 weeks to save up to P208/month!

(tested using a 1HP window-type conventional AC in an 18sqm room for 8 hours at night)





Optimize your consumption = Upgrade to an inverter

Save up to P1,245/month!

(tested using a 1HP window-type conventional AC in an 18sqm room vs 1 HP window-type inverter for 8 hours at night)



Inverters can come in both window and split-type ACs



Ceiling light + Desk lamp is the best combo for studying when natural light is not available. It only costs P15.80/month

(tested on a 6W Cool White LED desk lamp + 9W Warm White LED ceiling light in a 6sqm room at 5hr nightly use for 20 days per month)





Use right Air purifier for the room

33-watt is best for rooms 28sqm and below



AIR PURIFIER
₱0.58/hr.
cost to operate

Per Meralco Power Lab test on 45W air purifier in 30sqm room



Upgrade to a DC Fan

These cost less to use than AC Fans

(tested on a DC fan at 12hrs of use vs AC fans)





Boost your AC with a Fan

Use a fan to help circulate the cold air. Save P175/month

(tested on a 1HP conventional AC boosted by a 16" stand fan for 8 hours at night)



kolin



Boost AC w/
Electric Fan

SAVE P175/mo.

Per Meralco Power Lab test using a 1HP window-type conventional air conditioner for 7hrs then switching to a 16" Fan for 1hr vs Using the same AC unit for 8hrs.





Switch to motion-sensor LED lights for specific rooms Save up to P25.72/month!

(tested using a 25W Smart LED Light bulb for 1 hour)





Avoid Phantom Load

Electrical consumption caused by an appliance, equipment or device turned off but still plugged

1 Unplug appliances, devices not in use

⌚ Save up to P250.80/month

2 Use a Power Strip

⌚ For appliances in proximity with each other
– turn off all with 1 switch, no standby power

3 Unplug Water Dispenser at night

⌚ Save from 20% to 47% (*PhP 70-130 per month*)

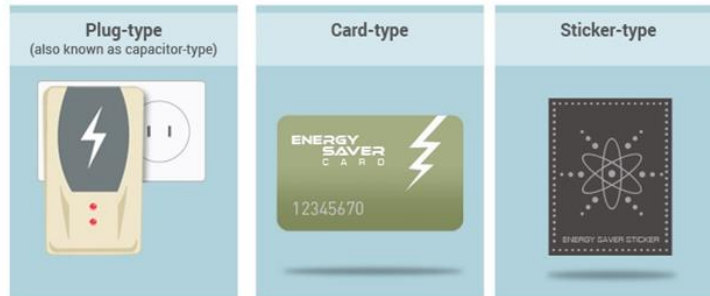


The Truth on Energy Saving Devices (ESDs)

What is an “Energy-Saving Device” or ESD?

An energy-saving device is any gadget, device, or apparatus that claims to lower energy consumption. Some are sold in malls, hardware stores, and online.

There are three popular types of ESDs:



The DOE doesn't endorse ESDs.

The Department of Energy has already released a statement saying that they don't endorse any of these devices, even warning the public against buying them.



Republic of the Philippines
DEPARTMENT OF ENERGY

DOE warns against products claiming to reduce energy consumption. It does not endorse “energy-saving” devices (ESDs).

Energy Saving Devices DO NOT WORK



Risks:



1. It can cost you more!

Meralco Power Lab tests show ESDs actually have standby power consumption that can add **Php 27 per month.**



2. It's a potential safety hazard.

ESDs don't have complete mandatory markings as prescribed by the Philippine National Standards, so we have no idea about its manufacturers or how to contact them for technical support. Risky!



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[meralcoph](https://www.instagram.com/meralcoph)



Track your consumption with the Meralco Appliance Calculator

- 1 Type your usual bill amount
- 2 Choose your appliance
- 3 Select how long you use it
- 4 Check if your consumption fits your budget

A hand holding a smartphone displaying the Meralco Appliance Energy Calculator app. The screen shows the app's title, a brief description, and input fields for the average monthly bill and appliance selection.

7:47 69%

culator.meralco.com.ph

Appliance Energy Calculator

Know how much your gadgets and appliances consume so you stay in control and manage your monthly budget better.

Start by filling out this form

Average monthly bill

This will determine the rate per kWh to be applied.

Php 500

Enter your average monthly bill amount

Select an appliance

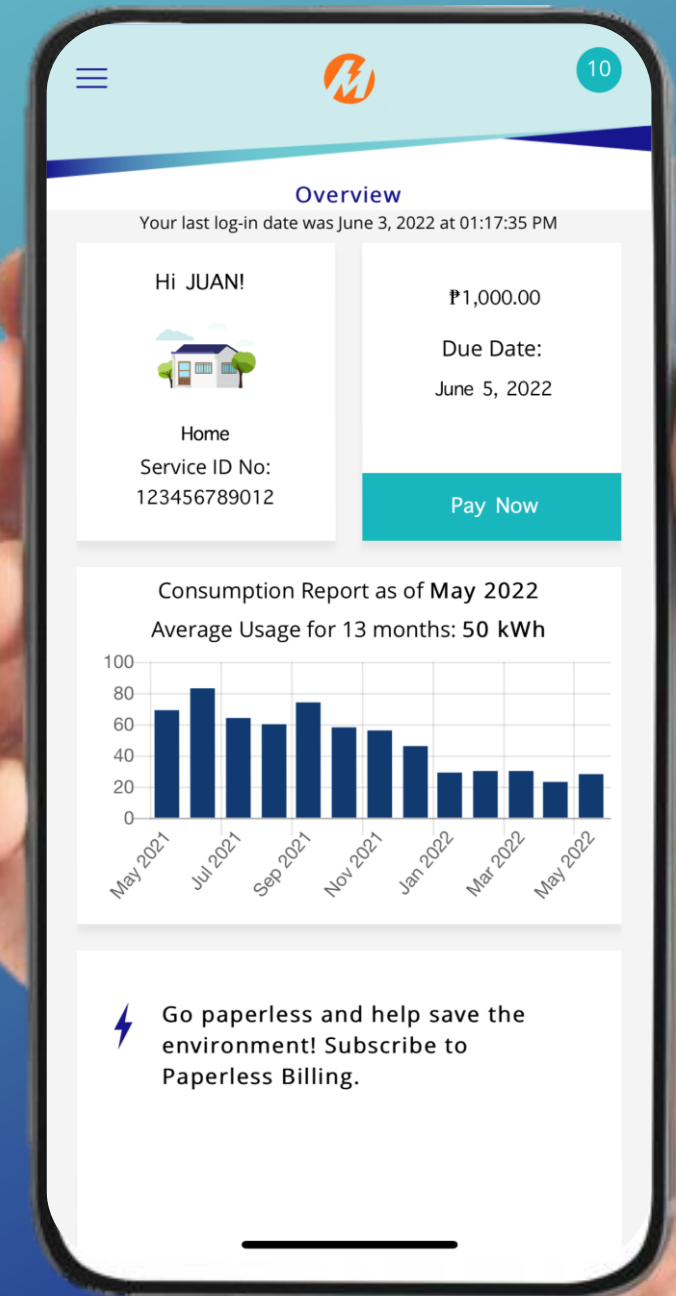
Please make a selection

Check the Meralco Appliance Calculator via our website

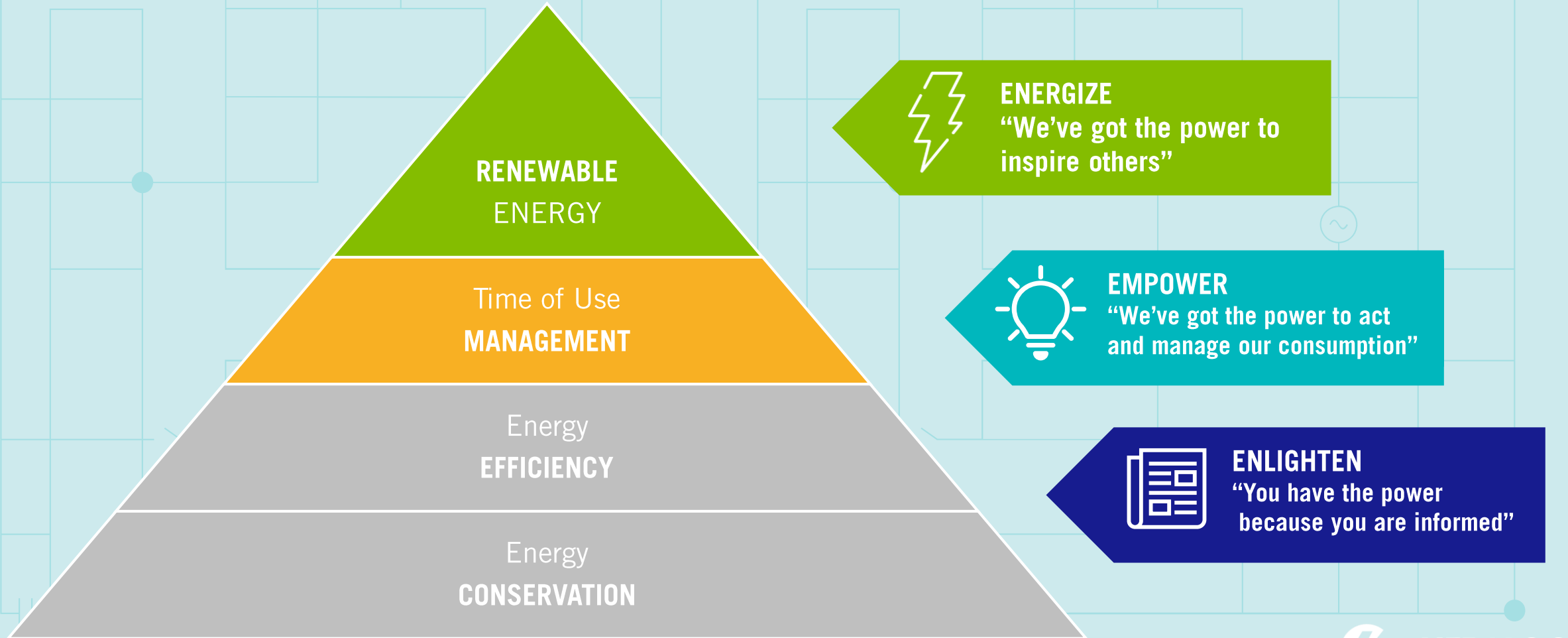
or download the Meralco Mobile App



<https://appliancecalculator.meralco.com.ph/>



Use the Energy Management Pyramid to help manage bills and consumption at home.



Peak / Off-Peak Solution



- ⌚ An alternative energy pricing scheme designed to help business **lower their total electricity expenses** through rates based on peak and off-peak periods.
- ⌚ This is best for businesses that operate on or **can shift a larger part of their energy-intensive operations to off-peak hours** and Sundays.

Peak and Off-Peak hours

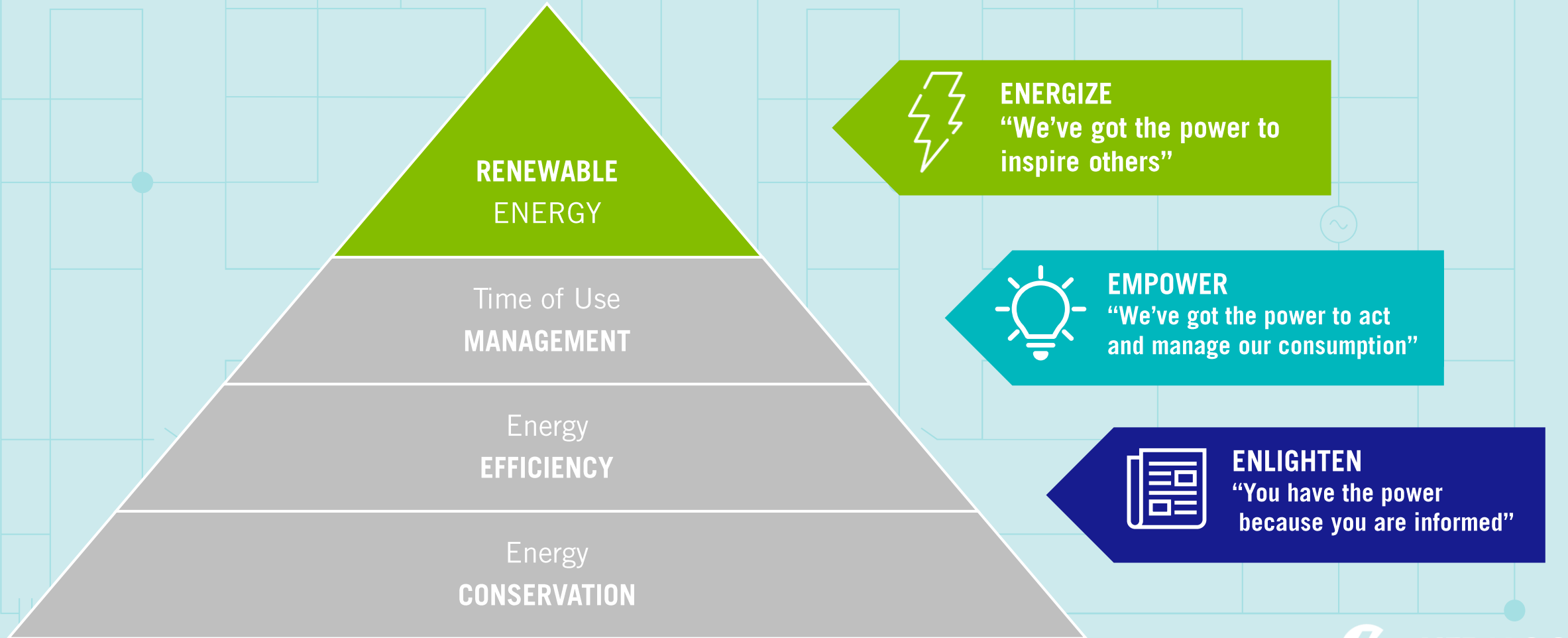
Day	Peak hours	Off-Peak hours
Monday to Saturday	8AM to 9PM (13 hrs)	9PM to 8AM (11 hrs)
Sunday	6PM to 8PM (2 hrs)	12AM to 6PM (18 hrs) and 8PM to 12AM (4 hours)

Peak and Off-Peak Rates

	Peak Rate	Off-Peak Rate
Dry Season (Jan – Jun)	Php 7.4854	Php 3.5461
Wet Season (Jul – Dec)	Php 7.2779	Php 3.5461

- ⌚ Shift at least **46%** of your operations to off-peak hours to enjoy savings from POP

Use the Energy Management Pyramid to help manage bills and consumption at home.





Solar Power

1

Solar energy is radiation produced by **nuclear fusion** inside the Sun's core

2

It only takes **8 minutes** to travel 93 million miles from the Sun to the Earth (186,000 miles per second)

3

Every **88 minutes**, enough sunlight reaches the Earth's surface to **power the world for a year!**



*PV or Photovoltaic is the method of generating electrical power by converting **sunlight** into direct current **electricity** through the use of solar panels*

Households can now be “Prosumers” and enjoy savings powered by the Sun



POTENTIAL SAVINGS OF
PHP **2,000** /month

✓ Best for those with a monthly electric bill of **PHP 5,000**



POTENTIAL SAVINGS OF
PHP **3,000** /month

✓ Best for those with a monthly electric bill of **PHP 8,000**



POTENTIAL SAVINGS OF
PHP **5,000** /month

✓ Best for those with a monthly electric bill of **PHP 10,000**

Disclaimer: Potential savings is computed based on consumers' actual electricity consumption and prevailing Meralco rates

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Solar Tips

1

Know your power needs
and purchase the right size

2

Check the best location
for your installation

3

Engage early & enroll with Meralco;
Choose the right solar provider



SOLUTIONS FOR MERALCO CUSTOMERS

(based on government programs)



NET METERING

≤ 100 kW RE
capacity,
excess for export to
the grid



ZERO-EXPORT

< Contracted Capacity,
solely for own-use
(no export)



Solar Safety

With NM and ZE, you are assured that your RE installation is compatible with the Meralco grid

properly measured & monitored to help you get the maximum value from your investment



SAFE

Complies with safety standards & regulations – no risk of electrical/ fire hazards & damage to property



STABLE

Avoid dangerous fluctuations, power interruptions and overloading of transformers



SUSTAINABLE

Distribution Utility will be able to properly bill and credit exported energy to generate savings.



NM Basics

Net Metering (NM)
allows customers
to install RE facilities
with a capacity up to 100 kW

Any excess RE electricity produced is
exported back to the power grid, and
its corresponding value will be given
as credits to the customer's next bill.



“It’s not the cost,
but the **SAVINGS...**”

You’re talking about
HALF of the regular bill.”

"The gift that keeps on giving"

Illac Diaz,
Environmental Advocate
Meralco NM customer

Solar Panels installed by
SPECTRUM, a Meralco company

Please Pay

₱ 21,061.78

Ave. monthly electricity bill before solar



Please Pay

₱ 10,877.01

Ave. monthly electricity bill after



FOR MORE INFORMATION, VISIT OUR WEBSITE:



www.meralco.com.ph

REACH US THROUGH OUR CUSTOMER CARE CHANNELS:



[Fb.com/meralco](https://www.facebook.com/meralco)



customer care@meralco.com.ph

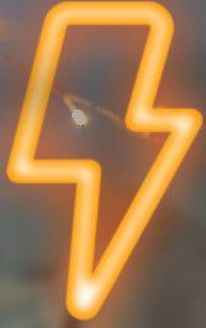


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Need to talk to a Meralco Rep at the Business Center? Avoid long lines.
Book an appointment online at www.meralco.com.ph



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