


**KILOWHATT?**

## Lektric Energy Efficiency Report

### 1. Appliance Usage Summary

APPLIANCE NAME	ORIGINAL WATTS	EFFECTIVE POWER (W)	DAILY USE (HRS)	USAGE BEHAVIOR (%)	DAILY KWH	MONTHLY KWH	MONTHLY COST (PHP)	VOLTAGE REGION
Air Conditioner Window Type (800W)	800	320.00	11	40	3.52	105.60	<b>623.04</b>	NCR (Metro Manila)
Air Conditioner Window Type (1000W)	1000	400.00	15	40	6.00	180.00	<b>1062.00</b>	NCR (Metro Manila)
6x Lights (10 watts per Lights)	60	60.00	12	100	0.72	21.60	127.44	NCR (Metro Manila)
tv	160	104.00	4	65	0.42	12.48	73.63	NCR (Metro Manila)
Small Electric Fan	30	30.00	6	100	0.18	5.40	31.86	NCR (Metro Manila)
Desktop PC	450	247.50	8	55	1.98	59.40	<b>350.46</b>	NCR (Metro Manila)
Electric Fan1	45	24.75	8	55	0.20	5.94	35.05	NCR (Metro Manila)

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Electric Fan2	45	24.75	8	55	0.20	5.94	35.05	NCR (Metro Manila)
Wifi Router	20	20.00	24	100	0.48	14.40	84.96	NCR (Metro Manila)

## 2. Energy Hogs - Top Spenders

Based on your current usage, the following appliances contribute the most significantly to your monthly electricity bill:

1. **Air Conditioner Window Type (1000W): PHP 1062.00/month**
2. **Air Conditioner Window Type (800W): PHP 623.04/month**
3. **Desktop PC: PHP 350.46/month**

## 3. Quantified Recommendations for Savings

Here's how you can reduce electricity consumption and save money, focusing on your top energy hogs:

### Energy Hog 1: Air Conditioner Window Type (1000W)

**Current Monthly Cost: PHP 1062.00 | Current Monthly kWh: 180.00 kWh**

#### A. Usage/Behavioral Recommendations (Quick Wins)

- **Reduce Daily Use Hours:** Lowering usage from 15 hours to 10 hours daily.
  - Estimated Monthly kWh Savings: **60.00 kWh**
  - Estimated Monthly PHP Savings: **354.00 PHP**
- **Increase Thermostat Setpoint:** Raising the thermostat by just 1-2 degrees Celsius can significantly reduce the compressor's runtime and effective power usage.
- **Regular Cleaning:** Clean or replace air filters monthly for optimal performance and efficiency.

#### B. Appliance Replacement Recommendations (Long-Term Savings)

- **Upgrade to an Inverter Air Conditioner:** Replace your old 1000W window type AC with a modern 1.5 HP inverter model. These units are highly efficient and can drastically reduce running costs.
  - Estimated New Monthly Cost (at 15 hrs/day, equivalent cooling): PHP 663.75

- Estimated Monthly kWh Savings: **67.50 kWh**
- Estimated Monthly PHP Savings: **398.25 PHP**

## Energy Hog 2: Air Conditioner Window Type (800W)

**Current Monthly Cost: PHP 623.04 | Current Monthly kWh:** 105.60 kWh

### A. Usage/Behavioral Recommendations (Quick Wins)

- **Reduce Daily Use Hours:** Cutting usage from 11 hours to 8 hours daily.
  - Estimated Monthly kWh Savings: **28.80 kWh**
  - Estimated Monthly PHP Savings: **169.92 PHP**
- **Utilize Natural Ventilation:** Open windows and use fans during cooler parts of the day or when the AC is not strictly necessary.

### B. Appliance Replacement Recommendations (Long-Term Savings)

- **Upgrade to an Inverter Air Conditioner:** Replace your old 800W window type AC with a modern 1.0 HP inverter model.
  - Estimated New Monthly Cost (at 11 hrs/day, equivalent cooling): PHP 389.40
  - Estimated Monthly kWh Savings: **39.60 kWh**
  - Estimated Monthly PHP Savings: **233.64 PHP**

## Energy Hog 3: Desktop PC

**Current Monthly Cost: PHP 350.46 | Current Monthly kWh:** 59.40 kWh

### A. Usage/Behavioral Recommendations (Quick Wins)

- **Reduce Daily Use Hours:** Reducing active usage from 8 hours to 6 hours daily.
  - Estimated Monthly kWh Savings: **14.85 kWh**
  - Estimated Monthly PHP Savings: **87.61 PHP**
- **Utilize Sleep Mode/Power Off:** Enable power-saving settings to put the PC to sleep after a short period of inactivity (e.g., 30 minutes) and turn it off completely when not in use for extended periods.

### B. Appliance Replacement Recommendations (Long-Term Savings)

- **Switch to an Energy-Efficient Laptop or Mini PC:** Modern laptops or mini PCs consume significantly less power than traditional desktop towers.
  - Estimated New Monthly Cost (at 8 hrs/day, 70W effective power): PHP 99.12
  - Estimated Monthly kWh Savings: **42.60 kWh**
  - Estimated Monthly PHP Savings: **251.34 PHP**

## Total Potential Monthly Savings

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By implementing the most impactful recommendations (e.g., replacing your ACs and Desktop PC with more efficient models), you could potentially save up to **PHP 883.23** on your electricity bill each month.