# **Energy Evaluation Worksheet**

Column 1	Column 2	Column 3	Column 4
Month	Total Consumption	Base Load:	HVAC Load:
	·	From calculation belo	Total Consumption - Base Load
als: add all 12			
			column 2. Add them together and divide by 2. To , except the last cell (total cell).
	+	=	÷ 2 =
lowes	st from column 2 next lo	owest from total	monthly base load for
		lumn 2	column 3
approximate amou		ing and cooling that month (C	I consumption (Column 2 - Column 3).This is the olumn 4). If the number is negative, put it in
Totals: Add all 12	months up in each column	. These are the annual usages	s for each column.
		_	
ep 2: Determin	ing your energy costs	n. These are the annual usages <b>and where your money i</b> on 2-Month Billing and Usage Cha	s going
ep 2: Determin Calculate your ele	ing your energy costs	and where your money is 2-Month Billing and Usage Cha letermine your electric rate.	s going art, divide the total
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e <b>p 2: Determin</b> <b>Calculate your ele</b> \$ Amount of FPL E	ing your energy costs ectricity rate: From your 12 Bills by total KWH Used to d	and where your money is 2-Month Billing and Usage Challetermine your electric rate.	s going art, divide the total  rate for electricity (\$/kwh)
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### Step 4: HVAC system inspection

return temperature supply temperature = \_\_\_\_\_(should be 14-22 degrees)

# Step 5: Checking for temperature and humidity variations

Use the Hygro-Thermometer to measure temperature and humidity levels throughout the home.

## Step 6: Finding out where base loads are going

**Water heating:** Assume 20% of base load for one person and 5% for each additional person in the household. So, for a family of two it would be 25% and for a family of four it would be 35%.

**Kill-A-Watt meter usage:** Use your Kill-A-Watt meter to determine what individual loads are consuming. Instructions for the Kill-A-Watt meter are in Appendix I and can also be found online at P3 International: www.p3international.com/manuals/p4400\_manual.pdf

#### Refrigerator

	- =		now take		÷		=	× 30 =	=
date/time read	= date/time installed	# of days		kwh used	# (	of days	kwh per day	/	kwh per month
Entertainment Cen	iter								
date/time read	= date/time installed	# of days	now take	kwh used	÷	of days	= kwh per day	× 30 =	kwh per month
Other appliance/d	evice:				-				
date/time read	= date/time installed	# of days	now take	kwh used	÷	of days	= kwh per day	<b>× 30</b> =	= kwh per month
Other appliance/d	evice:				-				
date/time read	= date/time installed	# of days	now take	kwh used	÷	of days	= kwh per day	<b>× 30</b> =	= kwh per month
	evice:				_				
date/time read	= date/time installed	# of days	now take	kwh used	÷	of days	= kwh per da	<b>× 30</b> =	= kwh per month

Once you have determined the approximate kwh per month that these individual appliances and devices are using, subtract it from your monthly base load and see what's left.

**Lighting Load:** Count the lights (bulbs) in your home and record their wattage. Put them in batches with the same wattage and guesstimate the run time for those lights. Calculate the approximate power used a month for lighting.

Once you have determined the approximate kwh per month that these individual appliances and devices are using, subtract it from your monthly base load and see what's left.