HOME ENERGY AUDIT

Calculation Sheet

Calculating Watts

- Method A	Watts = kWh / hours x 1000
- Method B1 (minutes)	Watts = price / minutes x 3881
- Method B2 (hours)	Watts = price / hours x 64.7

Calculating Usage andCost

Usage	kWh/year = Watts x (hrs/day) x (days/year) / 1000
Cost	$/year = (kWh/year) x 0.15455

Appliance	A	kWh	hours	Watts (1hr)	hrs/day	days/year	**Usage kWh/year**	Cost ($)/year
	B	price	time					
Examples								
Air-conditioner	A	4.4	8	550	8	250	1100	170.01
Television (viewing)	B1	1.12	90	48	5	350	85	13.07
Television (standby)	B2	0.58	12	3.13	24	365	27	4.24
LCD Computer Monintor				42	3	100	13	1.95
1 x 60 watt light bulb				60	6	350	126	19.47

Appliance	A	kWh	hours	Watts (1hr)	hrs/day	days/year	**Usage kWh/year**	Cost ($)/year
	B	price	time					

Formula Notes:

Standard rate for electricity on Tariff 11 is 15.455 cents/kWh

Formula for calculating Watts per hour (W) from price (P cents) and time (T minutes) is as follows:

$$W = (P / 15.46) / (T / 60) \times 1000$$

Otherwise written as $W = P / T \times (60 \times 1000 / 15.46)$

Or simplified as $W = P / T \times 3881$

If time is in hours: $W = P / T \times (1000 / 15.46)$

or simplified as $W = P / T \times 64.7$