

TIME PERIOD	APPLIANCE (assumes gas or solar hot water with kitchen a combination of gas and electric)	NUMBER USED IN HOME	POWER (WATTS) APPROX.	HOURS THIS PERIOD	KWH USAGE THIS PERIOD	KWH USAGE PER PERIOD	NOTES FAMILY OF 4. BOTH PARENTS WORKING. BOTH CHILDREN ARE OF SCHOOL AGE
12am - 8:30am (wake up 6am)	AIRCON (SMALL R/C)	1	2000	1.75	3.5	8.10	Wake up at 6am, lights on and get ready for the day - including toast and coffee for breakfast. All have showers, blow dry hair, etc. Heating or cooling on to ensure correct comfort levels.
	BATHROOM IXL 3 IN 1	2	1100	0.5	1.1		
	ESPRESSO MACHINE	1	600	0.2	0.12		
	HAIR STRAIGHTENER	1	40	0.3	0.012		
	HAIRDRYER	1	1000	0.5	0.5		
	DOWNLIGHTS	4	63	1.5	0.378		
	LIGHTS - INCANDESCENT	4	75	1	0.3		
	IRON	1	1000	0.2	0.2		
	KETTLE	1	2400	0.1	0.24		
	MICROWAVE	1	1000	0.3	0.3		
	MOBILE PHONE CHARGERS	2	5	2	0.02		
	TOASTER	1	1000	0.3	0.3		
	TV PLASMA OR LCD LARGE	1	200	1	0.2		
	JUICE MACHINE	1	300	0.1	0.03		
	LAMPS - BEDSIDE	4	40	0.3	0.048		
	CLOCK RADIO - BEDSIDE	3	3	8.5	0.0765		
	ALARM SYSTEM	1	6	8.5	0.051		
	ANSWERING MACHINE	1	5	8.5	0.0425		
	CORDLESS PHONE	2	5	8.5	0.085		
	FISHTANK	1	8	8.5	0.068		
ROLLER DOOR MOTOR	1	4	8.5	0.034			
SMOKE DETECTOR (HARDWIRED)	2	3	8.5	0.051			
FRIDGE	1	52	8.5	0.442			

8:30am - 3:30pm	FRIDGE	1	52	7	0.364	0.70	Leave home at 8:30am - work and school - all non essential power is turned off at the power point from 8:30am until 3.30pm minimal standby power including fridge and/or clock radio, alarm etc.
	CLOCK RADIO - BEDSIDE	3	3	7	0.063		
	ALARM SYSTEM	1	6	7	0.042		
	ANSWERING MACHINE	1	5	7	0.035		
	CORDLESS PHONE	2	5	7	0.07		
	FISHTANK	1	8	7	0.056		
	ROLLER DOOR MOTOR	1	4	7	0.028		
	SMOKE DETECTOR (HARDWIRED)	2	3	7	0.042		

3:30pm - 12am	AIRCON (SMALL R/C)	1	2000	2	4	14.95	3:30 p.m. children arrive home from school - computers and/or TV switched with gaming units and/or DVD player/ Foxtel on. Potentially heating/cooling also switched on. 5.30pm adults arrive home, dinner prepared, lights on, TV and/or pc & gaming still running. Dishwasher cleans dinner plates. Children in bed @ 8.30pm thus reduced lights on. Adults in bed @ 10.30pm - all lights off and only running essential standby power as per above examples.
	BATHROOM IXL 3 IN 1	2	1100	0.5	1.1		
	ESPRESSO MACHINE	1	600	0.2	0.12		
	HAIRDRYER	1	1000	0.5	0.5		
	DOWNLIGHTS	4	63	3	0.756		
	LIGHTS - INCANDESCENT	4	75	1.5	0.45		
	IRON	1	1000	0.2	0.2		
	KETTLE	1	2400	0.1	0.24		
	MICROWAVE	1	1000	0.3	0.3		
	MOBILE PHONE CHARGERS	2	5	1	0.01		
	TV PLASMA OR LCD LARGE	2	200	3.5	1.4		
	LAMPS - BEDSIDE	4	40	0.3	0.048		
	FRIDGE	1	52	8.5	0.442		
	PC	1	250	3	0.75		
	BLENDER	1	600	0.2	0.12		
	DEEP FRYER	1	1500	0.3	0.45		
	DVD PLAYER / FOXTEL	2	50	3	0.3		
	CLOCK RADIO - BEDSIDE	3	3	8.5	0.0765		
	ALARM SYSTEM	1	6	8.5	0.051		
	ANSWERING MACHINE	1	5	8.5	0.0425		
	CORDLESS PHONE	2	5	8.5	0.085		
	FISHTANK	1	8	8.5	0.068		
	ROLLER DOOR MOTOR	1	4	8.5	0.034		
	SMOKE DETECTOR (HARDWIRED)	2	3	8.5	0.051		
	FRYPAN - ELECTRIC	1	1700	0.2	0.34		
	PS3 or XBOX 360	1	190	1.5	0.285		
	RANGEHOOD	1	140	0.2	0.028		
HANDHELD MIXER	1	130	0.2	0.026			
PRINTER (INKJET)	1	100	0.2	0.02			
RICE COOKER	1	700	0.1	0.07			
CLOTHES DRYER *1	1	4000	0.28	1.12			
DISHWASHER *2	1	1300	1	1.3			
WASHING MACHINE *3	1	600	0.28	0.168			

*1 - clothes dryer is based on use twice a week hence hours used is low
 *2 - once a day
 *3 - washing machine is based on twice a week hence hours used is low

TOTAL DAILY POWER USAGE IN HOME	23.75
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TIME PERIOD	APPLIANCE (assumes gas or solar hot water with kitchen a combination of gas and electric)	NUMBER USED IN HOME	POWER (WATTS) APPROX.	HOURS THIS PERIOD	KWH USAGE THIS PERIOD	KWH USAGE PER PERIOD	NOTES FAMILY OF 4. FATHER WORKING, MOTHER A HOUSEWIFE. ONE CHILD OF SCHOOL AGE AND THE OTHER A TODDLER AT HOME WITH MOTHER
12am - 8:30am (wake up 6am)	AIRCON (SMALL R/C)	1	2000	1.75	3.5	10.38	Wake up 6am, lights on. Mr gets ready for work. 1 of 2 children gets ready for school. Breakfasts made for all parties. Tv on for child staying home with mother. Heating / cooling on to ensure correct comfort levels
	BATHROOM IXL 3 IN 1	2	1100	0.5	1.1		
	ESPRESSO MACHINE	1	600	1	0.6		
	HAIR STRAIGHTENER	1	40	0.1	0.004		
	HAIRDRYER	1	1000	0.5	0.5		
	DOWNLIGHTS	4	63	2.5	0.63		
	LIGHTS - INCANDESCENT	4	75	2	0.6		
	IRON	1	1000	1	1		
	KETTLE	1	2400	0.3	0.72		
	MICROWAVE	1	1000	0.3	0.3		
	MOBILE PHONE CHARGERS	2	5	1	0.01		
	TOASTER	1	1000	0.3	0.3		
	TV PLASMA OR LCD LARGE	1	200	1	0.2		
	JUICE MACHINE	1	300	0.1	0.03		
	LAMPS - BEDSIDE	4	40	0.2	0.032		
	CLOCK RADIO - BEDSIDE	3	3	8.5	0.0765		
	ALARM SYSTEM	1	6	8.5	0.051		
	ANSWERING MACHINE	1	5	8.5	0.0425		
	CORDLESS PHONE	2	5	8.5	0.085		
	FISHTANK	1	8	8.5	0.068		
ROLLER DOOR MOTOR	1	4	8.5	0.034			
SMOKE DETECTOR (HARDWIRED)	2	3	8.5	0.051			
FRIDGE	1	52	8.5	0.442			

8:30am - 3:30pm	FRIDGE	1	52	7	0.364	2.99	All non essential power turned off at wall. Mother and child at home throughout day so appliances still being used:- tv, foxtel, iron, pc etc. NOTE AIRCON NOT IN USE.
	CLOCK RADIO - BEDSIDE	3	3	7	0.063		
	ALARM SYSTEM	1	6	7	0.042		
	ANSWERING MACHINE	1	5	7	0.035		
	AIRCON (SMALL R/C)	1	2000	0	0		
	TV PLASMA OR LCD LARGE	1	200	3	0.6		
	IRON	1	1000	0.5	0.5		
	PC	1	250	1	0.25		
	KETTLE	1	2400	0.15	0.36		
	LIGHTS - INCANDESCENT	4	75	0.5	0.15		
	DOWNLIGHTS	4	63	0.5	0.126		
	CORDLESS PHONE	2	5	7	0.07		
	DVD PLAYER / FOXTEL	2	50	3	0.3		
	FISHTANK	1	8	7	0.056		
	ROLLER DOOR MOTOR	1	4	7	0.028		
SMOKE DETECTOR (HARDWIRED)	2	3	7	0.042			

3:30pm - 12am	AIRCON (SMALL R/C)	1	2000	4	8	19.40	3:30 p.m. Child arrives home from school - computers and/or TV switched with gaming units and/or DVD player/Foxtel on. Potentially heating/cooling also switched on. 5.30pm Father arrives home, dinner prepared, lights on, TV and/or pc & gaming still running. Dishwasher cleans dinner plates. Children in bed @ 8.30pm thus reduced lights on. Adults in bed @ 10.30pm - all lights off and only running essential standby power as per above examples. note heating or cooling may be switched on earlier and be running longer due to mother and child at home already
	BATHROOM IXL 3 IN 1	2	1100	0.5	1.1		
	ESPRESSO MACHINE	1	600	0.2	0.12		
	HAIRDRYER	1	1000	0.5	0.5		
	DOWNLIGHTS	4	63	3	0.756		
	LIGHTS - INCANDESCENT	4	75	1.5	0.45		
	IRON	1	1000	0.2	0.2		
	KETTLE	1	2400	0.1	0.24		
	MICROWAVE	1	1000	0.3	0.3		
	MOBILE PHONE CHARGERS	2	5	1	0.01		
	TV PLASMA OR LCD LARGE	2	200	3.5	1.4		
	LAMPS - BEDSIDE	4	40	2	0.32		
	FRIDGE	1	52	8.5	0.442		
	PC	1	250	3.5	0.875		
	BLENDER	1	600	0.2	0.12		
	DEEP FRYER	1	1500	0.3	0.45		
	DVD PLAYER / FOXTEL	2	50	3.5	0.35		
	CLOCK RADIO - BEDSIDE	3	3	8.5	0.0765		
	ALARM SYSTEM	1	6	8.5	0.051		
	ANSWERING MACHINE	1	5	8.5	0.0425		
	CORDLESS PHONE	2	5	8.5	0.085		
	FISHTANK	1	8	8.5	0.068		
	ROLLER DOOR MOTOR	1	4	8.5	0.034		
	SMOKE DETECTOR (HARDWIRED)	2	3	8.5	0.051		
	FRYPAN - ELECTRIC	1	1700	0.2	0.34		
	PS3 or XBOX 360	1	190	1.5	0.285		
	RANGEHOOD	1	140	0.2	0.028		
HANDHELD MIXER	1	130	0.2	0.026			
PRINTER (INKJET)	1	100	0.2	0.02			
RICE COOKER	1	700	0.1	0.07			
CLOTHES DRYER *1	1	4000	0.28	1.12			
DISHWASHER *2	1	1300	1	1.3			
WASHING MACHINE *3	1	600	0.28	0.168			

*1 - clothes dryer is based on use twice a week hence hours used is low
 *2 - once a day
 *3 - washing machine is based on twice a week hence hours used is low

TOTAL DAILY POWER USAGE IN HOME	32.76
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TIME PERIOD	APPLIANCE (assumes gas or solar hot water with kitchen a combination of gas and electric)	NUMBER USED IN HOME	POWER (WATTS) APPROX.	HOURS THIS PERIOD	KWH USAGE THIS PERIOD	KWH USAGE PER PERIOD	NOTES - RETIRED COUPLE
12am - 8:30am (wake up 7:30am)	AIRCON (SMALL R/C)	1	2000	1	2	4.75	wake up 7:30 am. TV on as well. Breakfast made inc. Coffee toast etc. Note less appliances as retired couple
	BATHROOM IXL 3 IN 1	1	1100	0.25	0.275		
	DOWNLIGHTS	3	63	1	0.189		
	LIGHTS - INCANDESCENT	3	75	1	0.225		
	KETTLE	1	2400	0.3	0.72		
	MICROWAVE	1	1000	0.3	0.3		
	MOBILE PHONE CHARGERS	1	5	1	0.005		
	TOASTER	1	1000	0.3	0.3		
	TV PLASMA OR LCD LARGE	1	200	0.5	0.1		
	LAMPS - BEDSIDE	2	40	0.2	0.016		
	CLOCK RADIO - BEDSIDE	1	3	8.5	0.0255		
	CORDLESS PHONE	1	5	8.5	0.0425		
	DVD PLAYER / FOXTEL	1	50	0.5	0.025		
	ROLLER DOOR MOTOR	1	4	8.5	0.034		
SMOKE DETECTOR (HARDWIRED)	2	3	8.5	0.051			
FRIDGE	1	52	8.5	0.442			

8:30am - 3:30pm	FRIDGE	1	52	7	0.364	1.91	Some appliances still in use although minimised as energy aware. Minimal lights used in daylight hours. Tv NOT on all day. Heating/cooling not used during day
	CLOCK RADIO - BEDSIDE	1	3	7	0.021		
	TV PLASMA OR LCD LARGE	1	200	1.5	0.3		
	IRON	1	1000	0.3	0.3		
	AIRCON (SMALL R/C)	1	2000	0	0		
	KETTLE	1	2400	0.3	0.72		
	LIGHTS - INCANDESCENT	3	75	0.1	0.0225		
	DOWNLIGHTS	3	63	0	0		
	CORDLESS PHONE	1	5	7	0.035		
	DVD PLAYER / FOXTEL	1	50	1.5	0.075		
	ROLLER DOOR MOTOR	1	4	7	0.028		
	SMOKE DETECTOR (HARDWIRED)	2	3	7	0.042		

3:30pm - 12am	AIRCON (SMALL R/C)	1	2000	2	4	8.93	Dinner prepared. Minimal heating and cooling (only to ensure comfort). Tv on a little, in bed by 9pm so consumption lower than working families.
	BATHROOM IXL 3 IN 1	1	1100	0.5	0.55		
	DOWNLIGHTS	3	63	3	0.567		
	LIGHTS - INCANDESCENT	3	75	1.5	0.3375		
	KETTLE	1	2400	0.1	0.24		
	MICROWAVE	1	1000	0.3	0.3		
	MOBILE PHONE CHARGERS	1	5	0	0		
	TV PLASMA OR LCD LARGE	2	200	1.5	0.6		
	LAMPS - BEDSIDE	2	40	0.5	0.04		
	FRIDGE	1	52	8.5	0.442		
	BLENDER	1	600	0.2	0.12		
	DVD PLAYER / FOXTEL	2	50	1.5	0.15		
	CLOCK RADIO - BEDSIDE	1	3	8.5	0.0255		
	CORDLESS PHONE	1	5	8.5	0.0425		
	ROLLER DOOR MOTOR	1	4	8.5	0.034		
	SMOKE DETECTOR (HARDWIRED)	2	3	8.5	0.051		
	FRYPAN - ELECTRIC	1	1700	0	0		
	RANGEHOOD	1	140	0.2	0.028		
	HANDHELD MIXER	1	130	0.2	0.026		
CLOTHES DRYER *1	1	4000	0.14	0.56			
DISHWASHER *2	1	1300	0.5	0.65			
WASHING MACHINE *3	1	600	0.28	0.168			

*1 - clothes dryer is based on use once a week hence hours used is low
 *2 - once every 2 days
 *3 - washing machine is based on twice a week hence hours used is low

TOTAL DAILY POWER USAGE IN HOME	15.59
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DAILY POWER PRODUCTION (NET) FIT (1:4) system size	% of Power Generated going to Grid	0%	10%	20%	30%	40%	50%	60%	70%	80%
	6 panels (1kw)		4 kwh	5.2 kwh	6.4 kwh	7.6 kwh	8.8 kwh	10 kwh*	11.2 kwh	12.4 kwh
9 panels (1.5kw)		6 kwh	7.8 kwh	9.6 kwh	11.4 kwh	13.2 kwh	15 kwh	16.8 kwh	18.6 kwh	20.4 kwh
12 panels (2kw)		8 kwh	10.4 kwh	12.8 kwh	15.2 kwh	17.6 kwh	20 kwh	22.4 kwh	24.8 kwh	27.2 kwh

*EXAMPLE:1kW system generates 4kWh per day and 50% goes back to the grid. Thus 2kWh powers home and 2kWh goes back to grid and multiplied by 4 multiples = 8kWh credits + 2kWh = 10kWh total electricity generation for the day

DAILY POWER PRODUCTION (NET) FIT (1:3) system size	% of Power Generated going to Grid	0%	10%	20%	30%	40%	50%	60%	70%	80%
	6 panels (1kw)		4 kwh	4.8 kwh	5.6 kwh	6.4 kwh	7.2 kwh	8 kwh*	8.8 kwh	9.6 kwh
9 panels (1.5kw)		6 kwh	7.2 kwh	8.4 kwh	9.6 kwh	10.8 kwh	12 kwh	13.2 kwh	14.4 kwh	15.6 kwh
12 panels (2kw)		8 kwh	9.6 kwh	11.2 kwh	12.8 kwh	14.4 kwh	16 kwh	17.6 kwh	19.2 kwh	20.8 kwh

*EXAMPLE:1kW system generates 4kWh per day and 50% goes back to the grid. Thus 2kWh powers home and 2kWh goes back to grid and multiplied by 3 multiples = 6kWh credits + 2kWh = 8kWh total electricity generation for the day

<u>EXAMPLE HOUSEHOLD</u>	POWER SENT BACK TO GRID DURING SOLAR PRODUCTION PERIOD: 6 PANELS (1KW) (% OF TOTAL SOLAR PV GENERATED)	POWER SENT BACK TO GRID DURING SOLAR PRODUCTION PERIOD: 9 PANELS (1.5KW) (% OF TOTAL SOLAR PV GENERATED)	POWER SENT BACK TO GRID DURING SOLAR PRODUCTION PERIOD: 12 PANELS (2KW) (% OF TOTAL SOLAR PV GENERATED)
<i>FAMILY OF 4. BOTH PARENTS WORKING. BOTH CHILDREN ARE OF SCHOOL AGE</i>	81%	88%	91%
<i>FAMILY OF 4. FATHER WORKING, MOTHER A HOUSEWIFE. ONE CHILD OF SCHOOL AGE AND THE OTHER A TODDLER AT HOME WITH MOTHER</i>	20%	47%	60%
<i>RETIRED COUPLE</i>	49%	66%	75%