

# Ottawa Valley PhotoVoltaic Solar Generated Electricity



## Off Grid Load Analysis

Description	AC or DC	Qty	Power Rating (W)	Day Week Month Year	Operating time Hours	Per Day total	Peak Watts	In Peak load
Grundfos 10SQE05-160 (96160210) 1/2HP well pump 33.34l/ min, 274l per person *2	AC	1	1090	Day	0.2739452	298.6003	1500	✓
Rennai RC80 Condensing DHW standby	AC	1	2	Day	24	48		
Rennai RC80 Condensing DHW heating, 8L/min	AC	1	63	Day	0.79	49.77		
Rennai RC80 radiant floor heating +circulation pump	AC	1	153	Day	3.36	514.08		✓
Refrigerator Electric Danby DCR326W 337 kWh/Y = .9232 kWh/day 1.3A Operating	AC	1	337000	Year	1	923.2877	156	✓
Washing machine Frigidaire FAFW3801LW 99kWh/Y. Water Usage/Year: 4,473. Op	AC	1	99000	Year	1	271.2329	960	
Propane Dryer Frigidaire FAQG701LW 600W max, assume 1 hr dry	AC	1	600	Year	300	493.1507	600	
Kitchen Range hood Fan Broan BP 180CFM 129W + 13W CFL light	AC	1	129	Week	1	18.42857		✓
Ceiling fan Canarm Seymour .42A fan only, 3 60W lite sockets 2 hrs /day in summer	AC	1	50.4	Day	0	0		
Ceiling fan Canarm Seymour 3 60W lite sockets with 3*13W CFL	AC	1	39	Day	2	78		✓
Hair Dryer 1500W used 15 min per week	AC	1	1500	Week	0.25	53.57143	1500	
Laptop computer use 2hrs / day	AC	1	40	Day	2	80		✓
iPhone Cell phone charger	AC	1	18	Day	3	54		✓
Steam Iron 1/2hr / week, GE 169233	AC	1	1500	Week	0.5	107.1429	1500	
Sewing machine	AC	1	110	Week	1	15.71429		✓
Radio	AC	1	10	Day	4	40		✓
Bathroom fan (72W) & light Nutone 768CHNT-A (2 lite sockets, 13W) FAN	AC	1	72	Day	0.5	36		✓
Bathroom fan (72W) & light Nutone 768CHNT-A (2 lite sockets, 13W) LIGHT	AC	1	26	Day	1	26		✓
Bathroom Vanity Uptown 13W CFL	AC	1	13	Day	0.5	6.5		✓
Kitchen work area light Globe Candice 3 sockets use 13W CFL	AC	1	39	Day	2	78		✓
Ceiling lights Intertek 2x60W use 13W CFL	AC	2	13	Day	0.5	13		✓
a single 13W bulb that will be used for 1 hour a day	AC	1	13	Day	1	13		✓
Kohler Carb heater, required below 32 degrees F,	AC	1	38	Day	24	912		✓

Sony 42" 1080p 120Hz LED Smart TV (KDL42W650A) 0.45W standby	AC	1	50	Day	3	150		✓
Sony 42" 1080p 120Hz LED Smart TV (KDL42W650A) 0.45W standby	AC	1	0.45	Day	21	9.45		
Bell satellite HD TV receiver model Echo star 6400 7.4W on, 7.0W standby	AC	1	7.4	Day	3	22.2		
Bell satellite HD TV receiver model Echo star 6400 7.4W on, 7.0W standby	AC	1	7	Day	21	147		
Total AVERAGE Load per day (Watt Hours)						4458.129		
Total PEAK Load (Watts)						2419		