



Net Metering Return on Investment

	House	Car	
Size in kW of panels	12		
System generation kWh per year	14376		
EV average kWh used per km driven	0.2		
EV expected km driven per year (20,000 average)	20000		
Rate of LID (.006% per year average)	0.006		
Home average consumption per year	13000	9000	4000
Cost of net metering system (roof turnkey install)	25875		
Annual optional insurance 0.2% of cost	51.75		
Other annual			
Grid power utility's cost per kWh inc HST today	0.140811		Hydro Ottawa
Anticipated rate of hydro rate increase 3%	3%		
Annual hydro bill reduction possible	1778.793		
% of consumption supplied by solar (max 100%)	90.43%		
accumuated \$ saved	Year	panel drop	Hydro rate Annual sav
\$1,778.79	1	0.9965	0.140811 \$1,778.79
\$3,612.50	2	0.9905	0.145035 \$1,833.71
\$5,502.78	3	0.9845	0.149386 \$1,890.27
\$7,451.31	4	0.9785	0.153868 \$1,948.53
\$9,459.85	5	0.9725	0.158484 \$2,008.54
\$11,530.20	6	0.9665	0.163239 \$2,070.35
\$13,664.22	7	0.9605	0.168136 \$2,134.01
\$15,863.80	8	0.9545	0.17318 \$2,199.59
\$18,130.93	9	0.9485	0.178375 \$2,267.13
\$20,467.62	10	0.9425	0.183726 \$2,336.69
\$22,875.97	11	0.9365	0.189238 \$2,408.35
\$25,358.12	12	0.9305	0.194915 \$2,482.15
\$27,916.29	13	0.9245	0.200763 \$2,558.17
\$30,552.75	14	0.9185	0.206786 \$2,636.46
\$33,269.86	15	0.9125	0.212989 \$2,717.11
\$36,070.04	16	0.9065	0.219379 \$2,800.18
\$38,943.48	17	0.9005	0.22596 \$2,873.44
\$41,884.60	18	0.8945	0.232739 \$2,941.12
\$44,894.83	19	0.8885	0.239721 \$3,010.23
\$47,975.62	20	0.8825	0.246913 \$3,080.79
\$51,128.44	21	0.8765	0.25432 \$3,152.83
\$54,354.82	22	0.8705	0.26195 \$3,226.37
\$57,656.26	23	0.8645	0.269808 \$3,301.44
\$61,034.33	24	0.8585	0.277903 \$3,378.07
\$64,490.60	25	0.8525	0.28624 \$3,456.27
\$68,026.68	26	0.8465	0.294827 \$3,536.08
\$71,644.21	27	0.8405	0.303672 \$3,617.52
Internal Rate of Return	7.91%		
ROI (Return on Investment) over 15 years	28.58%		
ROI (Return on Investment) over 20 years	85.41%		
ROI (Return on Investment) over 25 years	149.24%		



Net Metering Return on Investment

	House	Car	
Size in kW of panels	8		
System generation kWh per year	9584		
EV average kWh used per km driven	0.2		
EV expected km driven per year (20,000 average)	0		
Rate of LID (.006% per year average)	0.006		
Home average consumption per year	9000	9000	0
Cost of net metering system (roof turnkey install)	19000		
Annual optional insurance 0.2% of cost	38		
Other annual			
Grid power utility's cost per kWh inc HST today	0.140811		Hydro Ottawa
Anticipated rate of hydro rate increase 3%	3%		
Annual hydro bill reduction possible	1229.299		
% of consumption supplied by solar (max 100%)	93.91%		
accumuated \$ saved	Year	panel drop	Hydro rate Annual sav
\$1,229.30	1	0.9965	0.140811 \$1,229.30
\$2,496.62	2	0.9905	0.145035 \$1,267.32
\$3,803.09	3	0.9845	0.149386 \$1,306.48
\$5,149.91	4	0.9785	0.153868 \$1,346.81
\$6,538.26	5	0.9725	0.158484 \$1,388.36
\$7,969.41	6	0.9665	0.163239 \$1,431.15
\$9,444.63	7	0.9605	0.168136 \$1,475.22
\$10,965.25	8	0.9545	0.17318 \$1,520.62
\$12,532.63	9	0.9485	0.178375 \$1,567.38
\$14,148.16	10	0.9425	0.183726 \$1,615.54
\$15,808.65	11	0.9365	0.189238 \$1,660.49
\$17,508.89	12	0.9305	0.194915 \$1,700.24
\$19,249.73	13	0.9245	0.200763 \$1,740.84
\$21,032.05	14	0.9185	0.206786 \$1,782.31
\$22,856.72	15	0.9125	0.212989 \$1,824.68
\$24,724.67	16	0.9065	0.219379 \$1,867.94
\$26,636.79	17	0.9005	0.22596 \$1,912.13
\$28,594.04	18	0.8945	0.232739 \$1,957.25
\$30,597.36	19	0.8885	0.239721 \$2,003.32
\$32,647.72	20	0.8825	0.246913 \$2,050.36
\$34,746.10	21	0.8765	0.25432 \$2,098.39
\$36,893.52	22	0.8705	0.26195 \$2,147.41
\$39,090.98	23	0.8645	0.269808 \$2,197.46
\$41,339.53	24	0.8585	0.277903 \$2,248.55
\$43,640.21	25	0.8525	0.28624 \$2,300.68
\$45,994.10	26	0.8465	0.294827 \$2,353.89
\$48,402.28	27	0.8405	0.303672 \$2,408.18
Internal Rate of Return	7.20%		
ROI (Return on Investment) over 15 years	20.30%		
ROI (Return on Investment) over 20 years	71.83%		
ROI (Return on Investment) over 25 years	129.69%		