

ENERGY

SOLAR PHOTOVOLTAIC (PV): ELECTRICITY

POWER PROVIDED	2 KW System	3 KW System	4 KW System	5 KW System
Cost	\$9 /watt	\$9 /watt	\$9 /watt	\$9 /watt
	\$9,000 /KW	\$9,000 /KW	\$9,000 /KW	\$9,000 /KW
Cost of system	\$18,000	\$27,000	\$36,000	\$45,000
Less rebate	(4.00) /watt	(4.00) /watt	(4.00) /watt	(4.00) /watt
	(4,000.00) /KW	(4,000.00) /KW	(4,000.00) /KW	(4,000.00) /KW
Total Rebate	(8,000.00)	(12,000.00)	(16,000.00)	(20,000.00)
Adjusted cost of system	<b>10,000.00</b>	<b>15,000.00</b>	<b>20,000.00</b>	<b>25,000.00</b>
Less NYS tax credit (25% up to \$5,000)	(2,500.00)	(3,750.00)	(5,000.00)	(5,000.00)
Less Federal tax credit	(2,000.00)	(2,000.00)	(2,000.00)	(2,000.00)
<b>TOTAL COST OUT OF POCKET</b>	<b>\$5,500</b>	<b>\$9,250</b>	<b>\$13,000</b>	<b>\$18,000</b>
Assume 4 hours sun/day	4	8 KWH/DAY	12 KWH/DAY	16 KWH/DAY
Assume 30 days/month	30	240 KWH/MO	360 KWH/MO	480 KWH/MO
	\$ 0.18 /KWH	\$ 0.18 /KWH	\$ 0.18 /KWH	\$ 0.18 /KWH
	\$ 43.20 MONTH	\$ 64.80 MONTH	\$ 86.40 MONTH	\$ 108.00 MONTH
	127.31 MONTHS	142.75 MONTHS	150.46 MONTHS	166.67 MONTHS
<b>PAYBACK</b>	<b>10.61 YEARS</b>	<b>11.90 YEARS</b>	<b>12.54 YEARS</b>	<b>13.89 YEARS</b>

SOLAR (THERMAL) HOT WATER

Tax credit but not big rebate, including federal investment credit, state investment credit.

Solar thermal can provide 100% hot water in summer and approx. 50% in winter.

For a brownstone, the systems are sized by the number of people in the house.

For up to 4 people Use 2 collector system w/ 80 gal. Storage tank  
For greater than 4 people Use 3 collector system w/ 105 gal. Storage tank

COSTS:	2-collector	3-collector
Base cost	\$ 7,650.00	
add for NYC filing	\$ 1,500.00	
add installation	\$ 600.00	
add for \$3ft over 50' (assume 100')	\$ 150.00	
Total	\$ 9,900.00	\$ 11,800.00
less federal & state tax credits	\$ (4,525.00)	\$ (4,950.00)
	<b>\$ 5,375.00</b>	<b>\$ 6,850.00</b>

PAYBACK 5-6 years 4-5 years

