

SOLAR PHOTOVOLTAIC (PV) COST CALCULATOR

Professional Installation

Revision: June 7, 2014

Sub Totals

CONSUMPTION	
Total of your Electric Bill Last Month	\$95.00
Total KW-H on your Electric Bill Last Month	661
Calculated Delivered Cost Per KW-H from your Bill Last Month	\$0.144

ASSUMPTIONS	
Federal Tax Credit	30%
Proposed Solar PV System Size in Watts	900
Property Tax Rate (percentage)	1.5%
Output Factor (i.e. West Michigan = 1.1)	1.1

SOLAR COMPONENTS	
Three, 300 Watt Micro Inverters with cables and end cap	\$526
Three, 300 Watt Solar PV Modules from Michigan	\$780
One, Ground Mount, Adjustable Angle Solar Tilt Racking System	\$410
Efergy Electric Use Monitor from Amazon	\$102
Misc. Other	\$-
Sub-Total of Solar Components	\$1,818

\$1,818

INSTALLATION SUPPLIES AND MATERIALS	
House Wiring Supplies (Wire, Cable, Conduit)	\$200
Disconnect Switch	\$50
RV50 Receptacle & Plug	\$100
24 Hour Timer Switch	\$55
Circuit Breaker	\$35
Cement	\$50
Misc. Other	\$-
Sub-Total of Supplies and Materials	\$490

\$490

PERMITS & FEES	
Building Permit	\$150
Electrical Permit	\$150
Electrician In House Wiring	\$150
Electrician out of House Wiring	\$150
Consultation Fee Solar PV Installer	\$50
Installation Fee Solar PV Installer	\$200
Interconnection Agreement Fee	\$75
Net Metering Agreement Fee	\$25
Sub-Total of Permits and Fees	\$950

\$950

CALCULATED VALUES	
TOTAL INSTALLATION COST	\$3,258
Federal Tax Credit	\$977
TOTAL OUT OF POCKET COST	\$2,281

CALCULATED PAYBACK	
Estimated Yearly Output of Solar Panels in kW-Hours	990
Annual Savings (Output x Cost/kWh)	\$142
Increased Property Taxes due to increased Prop. Value	\$34
Net Savings Per Year	\$108
Years to Payback	21

SOLAR PHOTOVOLTALIC (PV) COST CALCULATOR
Do It Yourself Installation
Revision: June 7, 2014

Sub Totals

CONSUMPTION	
Total of your Electric Bill Last Month	\$95.00
Total KW-H on your Electric Bill Last Month	661
Calculated Delivered Cost Per KW-H from your Bill Last Month	\$0.144

ASSUMPTIONS	
Federal Tax Credit	30%
Proposed Solar PV System Size in Watts	900
Property Tax Rate (percentage)	0.0%
Output Factor (i.e. West Michigan = 1.1)	1.1

SOLAR COMPONENTS	
Three, 300 Watt Micro Inverters with cables and end cap	\$526
Three, 300 Watt Solar PV Modules from Michigan	\$780
One, Ground Mount, Adjustable Angle Solar Tilt Racking System	\$410
Efergy Electric Use Monitor from Amazon	\$102
Misc. Other	\$-
Sub-Total of Solar Components	\$1,818

\$1,818

INSTALLATION SUPPLIES AND MATERIALS	
House Wiring Supplies (Wire, Cable, Conduit)	\$200
Disconnect Switch	\$50
RV50 Receptacle & Plug	\$-
24 Hour Timer Switch	\$55
Circuit Breaker	\$35
Cement	\$50
Misc. Other	\$-
Sub-Total of Supplies and Materials	\$390

\$390

PERMITS & FEES	
Building Permit	\$-
Electrical Permit	\$-
Electrician In House Wiring	\$100
Electrician out of House Wiring	\$-
Consultation Fee Solar PV Installer	\$50
Installation Fee Solar PV Installer	\$50
Interconnection Agreement Fee	\$75
Net Metering Agreement Fee	\$25
Sub-Total of Permits and Fees	\$300

\$300

CALCULATED VALUES	
TOTAL INSTALLATION COST	\$2,508
Federal Tax Credit	\$752
TOTAL OUT OF POCKET COST	\$1,756

CALCULATED PAYBACK	
Estimated Yearly Output of Solar Panels in kW-Hours	990
Annual Savings (Output x Cost/kWh)	\$142
Increased Property Taxes due to increased Prop. Value	\$-
Net Savings Per Year	\$142
Years to Payback	12