



Energy Efficient Building Technologies Site Report

Report Name 101 Tispaquin st. middleboro Ma 5Kw system report
Report Date 6/22/2009 10:57:15 PM
Declination -15d 04m
Location MIDDLEBORO, MA 02346
Lat/Long 41.915 / -70.882
Weather Station Plymouth Muni AP, MA, Elevation: 148 Feet, (41.917/-70.733)
Site distance 8 Miles

Report Type PV

Array Type Fixed
Tilt Angle 38.00 deg
Ideal Tilt Angle 41.92 deg
Azimuth 179.90 deg
Ideal Azimuth 180.00 deg

Electric Cost 0.17 (\$/KWH)

Panel Make Canadian Solar Inc
Panel Model CS6P-200
Panel Count 25
DC Rate (per panel) 200.0 W
Total System Size 5,000.0 W
Inverter Make Enphase Energy
Inverter Model M190-72-208-S12
Inverter Count 25
Derate Method Using Components
Derate Factor 0.795

Layout Configuration FourCorner
Layout Point Count 4

Notes: [None]

Report generated by SolarPathfinder Assistant Version 4.1.11.0. <http://www.solarpathfinder.com>

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Energy Efficient Building Technologies System Picture Layout

Layout Type Four Corners

Layout Point Count 4



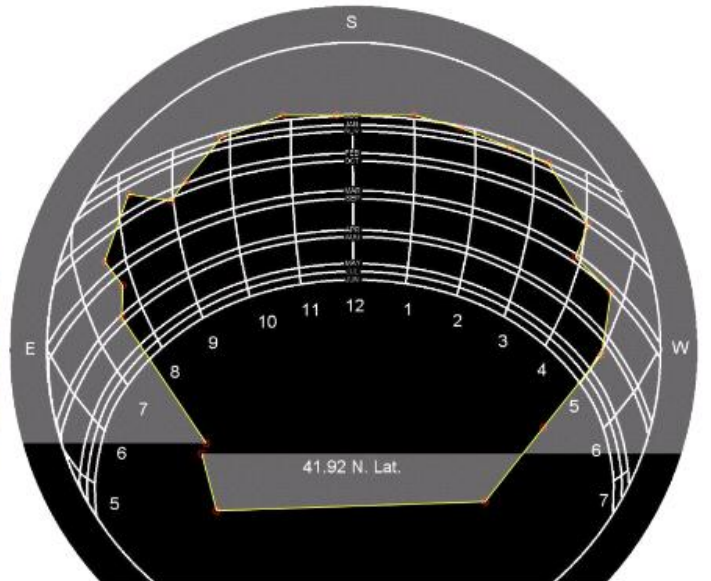
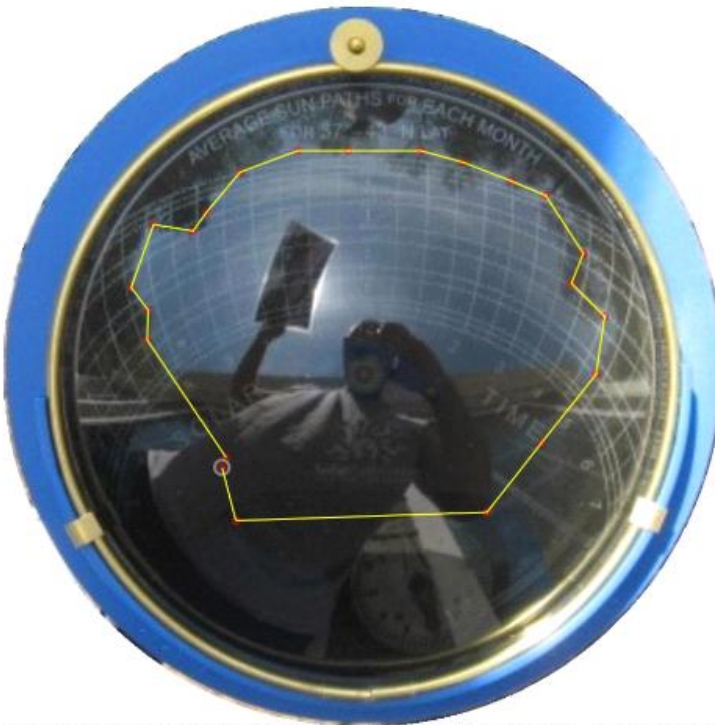


Image File IMG_0975.JPG

Solar Obstruction Data

Month	Actual Solar Rad w/ Shading Azimuth=179.9 Tilt=38.0 KWH/m ² /day	Actual AC Energy (KWH) w/ shading Azimuth=179.90 Tilt=38.00	Actual AC Energy (KWH) w/o shading Azimuth=179.9 Tilt=38.00	Ideal AC Energy (KWH) w/o shading Azimuth=180.0 Tilt=41.92	Solar Cost Savings \$0.17/KWH	PVWatts Unshaded % Actual Site Azimuth=179.9 Tilt=38.00	Actual Site Efficiency % Azimuth=179.9 Tilt=38.00	Ideal Site Efficiency % Azimuth=180.0 Tilt=41.92
January	2.50	318.69	400.00	409.00	\$54.18	77.79 %	75.90 %	77.87 %
February	2.17	245.02	268.00	271.00	\$41.65	89.10 %	88.01 %	88.87 %
March	4.64	565.56	606.00	607.00	\$96.14	92.01 %	91.65 %	92.00 %
April	3.85	450.53	475.00	472.00	\$76.59	92.59 %	93.71 %	92.70 %
May	4.51	520.27	558.00	541.00	\$88.45	91.17 %	93.24 %	91.43 %
June	4.15	451.11	484.00	472.00	\$76.69	90.84 %	93.29 %	91.07 %
July	4.58	520.29	558.00	543.00	\$88.45	91.14 %	93.37 %	91.36 %
August	4.52	510.05	532.00	524.00	\$86.71	93.26 %	94.83 %	93.49 %
September	4.34	479.55	509.00	507.00	\$81.52	92.99 %	93.39 %	93.20 %
October	3.12	366.00	388.00	391.00	\$62.22	91.87 %	90.80 %	91.77 %
November	2.60	305.98	395.00	402.00	\$52.02	76.96 %	75.40 %	77.05 %
December	1.11	131.99	274.00	284.00	\$22.44	47.64 %	46.26 %	47.45 %
Totals	42.11	4,865.05	5,447.00	5,423.00	\$827.06	85.61 %	85.82 %	85.69 %
		Effect: 87.99%				Unweighted	Unweighted	Unweighted
		Sun Hrs: 3.51				Yearly Avg	Yearly Avg	Yearly Avg

Notes: [None]





Energy Efficient Building Technologies Summary Report

Solar Obstruction Data

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