

EXHIBIT 4A - SYSTEM LOSS ANALYSIS SOLAR PATHFINDER



Site Report

Report Name	
Report Date	7/21/2011 12:03:08 AM
Declination	-13d 18m
Location	
Lat/Long	
Weather Station	Count, NY, Elevation: 400 Feet, (41.067/-73.717)
Site Distance	3 Miles
Report Type	PV
Array Type	Fixed Angle
Tilt Angle	23.00 deg
Ideal Tilt Angle	41.05 deg
Azimuth	141.70 deg
Ideal Azimuth	180.00 deg
Electric Cost	0.145 (\$/KWH)
Panel Make	Grape Solar
Panel Model	CS-P-230-DJ
Panel Count	90
DC Rate (per panel)	230.0 Watts
Total System Size	20,700.0 Watts
Inverter Make	Power-One
Inverter Model	PVI-10.0-I-OUTD-x-US-208-y
Inverter Count	2
Derate Method	System Setting
Derate Factor	0.800
Layout Configuration	Single Picture
Layout Point Count	1

Notes: Revised 7-20-11



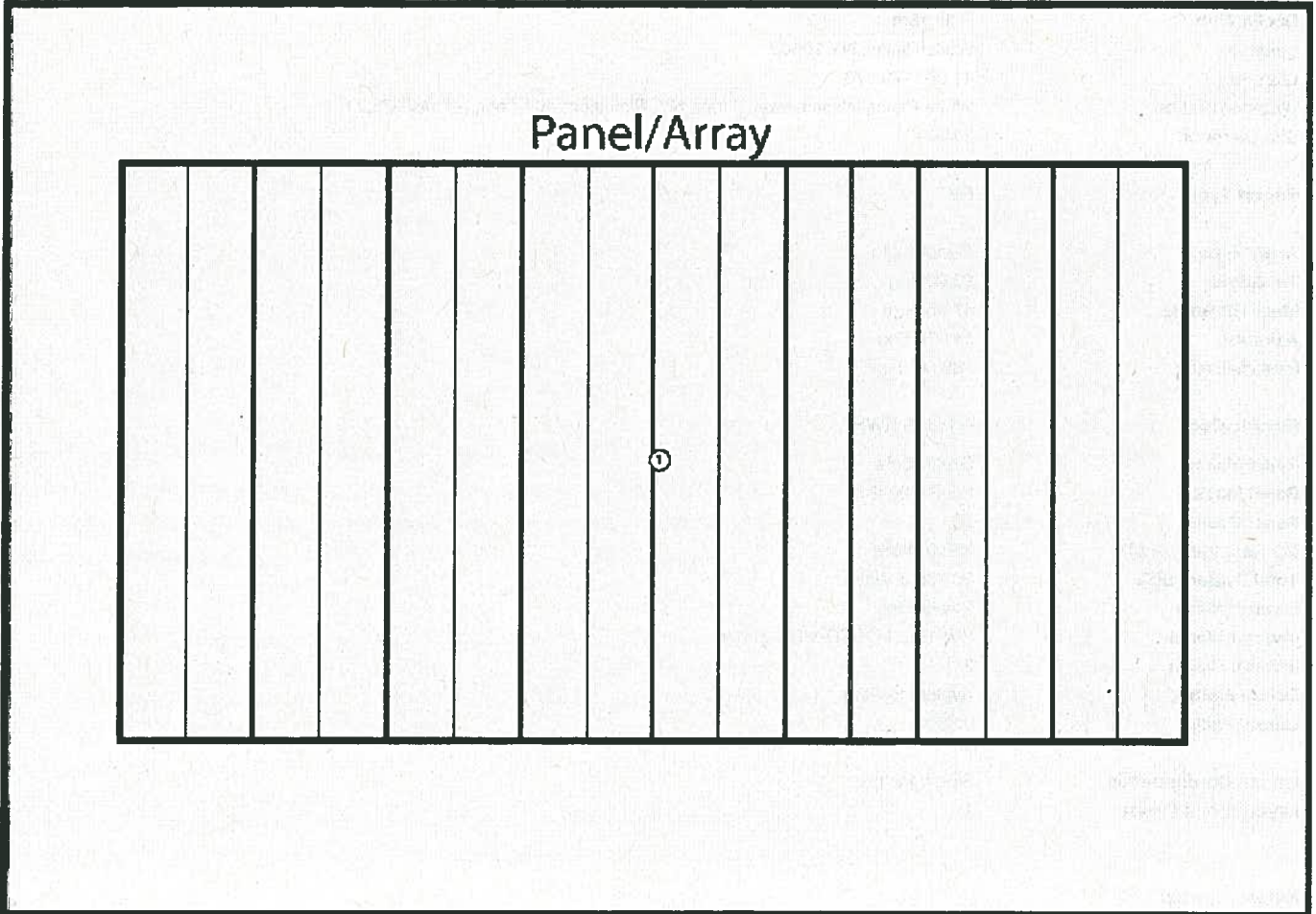
System Picture Layout

Layout Type

Single Picture

Layout Point Count

1



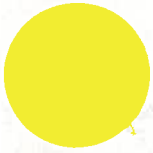


Summary Report

Solar Obstruction Data (Part 1 of 2)

Month	Actual Shaded Solar Radiation Azimuth=141.7 Tilt=23.0 KWhr/m^2	Actual Shaded AC Energy (KWH) Azimuth=141.70 Tilt=23.00	Actual Unshaded AC Energy (KWH) Azimuth=141.7 Tilt=23.00	Ideal Unshaded AC Energy (KWH) Azimuth=180.0 Tilt=41.05	PV Solar Cost Savings 0.145 (\$/KWH)	PVWatts Unshaded % Actual Site Azimuth=141.7 Tilt=23.00
January	2.85	1,521.00	1,521.00	1,962.00	\$220.55	100.00 %
February	4.49	2,151.89	2,152.00	2,672.00	\$312.02	100.00 %
March	4.73	2,376.00	2,376.00	2,593.00	\$344.52	100.00 %
April	4.32	2,044.22	2,045.00	2,001.00	\$296.41	99.01 %
May	5.06	2,469.36	2,490.00	2,322.00	\$358.06	97.56 %
June	4.70	2,139.40	2,160.00	1,962.00	\$310.21	97.27 %
July	4.68	2,158.47	2,180.00	2,000.00	\$312.98	97.02 %
August	4.64	2,172.28	2,177.00	2,104.00	\$314.98	98.43 %
September	3.90	1,744.00	1,744.00	1,836.00	\$252.88	99.71 %
October	3.87	1,904.00	1,907.00	2,222.00	\$276.08	100.00 %
November	2.84	1,370.00	1,370.00	1,741.00	\$198.65	99.88 %
December	2.56	1,322.00	1,322.00	1,845.00	\$191.69	99.91 %
Totals	48.63	23,372.62	23,444.00	25,260.00	\$3,389.03	99.06 %
	Effect: 92.21%					Unweighted
	Sun Hrs: 4.05					Yearly Avg

Notes: Revised 7-20-11



Atlantech Solar Summary Report

Report generated by SolarPathfinder Assistant Version 4.1.40.0. <http://www.solarpathfinder.com>

Solar Obstruction Data (Part 2 of 2)			
Month	Actual Site Efficiency % Azimuth=141.7 Tilt=23.00	Ideal Site Efficiency % Azimuth=180.0 Tilt=41.05	
January	78.17 %	100.00 %	100.00 %
February	80.90 %	99.69 %	99.69 %
March	91.15 %	99.93 %	99.93 %
April	100.00 %	98.83 %	98.83 %
May	100.00 %	97.10 %	97.10 %
June	100.00 %	96.66 %	96.66 %
July	100.00 %	96.46 %	96.46 %
August	100.00 %	98.10 %	98.10 %
September	94.17 %	99.63 %	99.63 %
October	85.33 %	99.66 %	99.66 %
November	79.90 %	99.84 %	99.84 %
December	74.14 %	100.00 %	100.00 %
Totals	90.31 %	98.83 %	
	Unweighted	Unweighted	
	Yearly Avg	Yearly Avg	

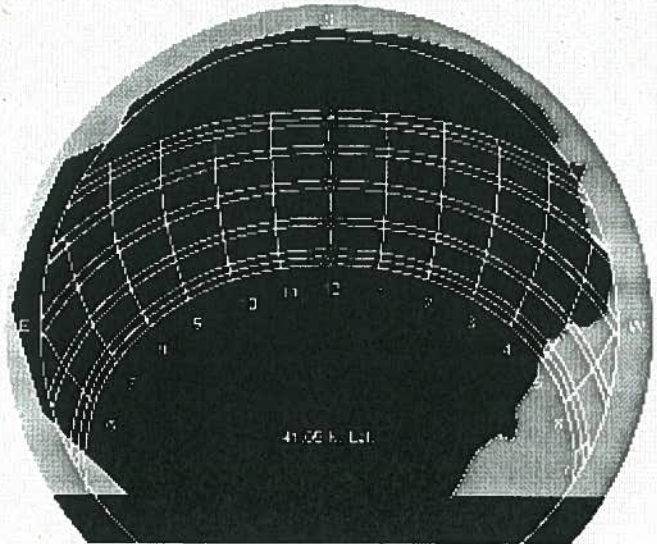


Solar Site Analysis Report

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Layout Point: 1

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Solar Site Analysis Report

Image File: "er.jpg"
Layout Point: 1

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December	74.14 %	100.00 %
Totals	90.31 %	98.83 %
	Unweighted	Unweighted
	Yearly Avg	Yearly Avg