NEW
Software Update!

New Features include the ability to

- Provide multiple array orientations/tilts within the same report.
- See client's energy usage history alongside system output.
- Create fast reports with the new disable module layout.
- Make reports for ground or roof mounted systems.
- Overlay panels with the new site image feature.

Solar Pathfinder PV Studio 2

WWW.SOLARPATHFINDER.COM/SPV

Receive 10% off your next order

Promo Code: SPV10OFF

Helpful Tips:

Create professional customized reports complete with: your company name, logo, and address in just a few clicks!

John Smith

6/6/2016

For:

John Smith
125 Main Street
Linden TN 37097
(123) 456 7890

By:

Small Town Solar
101 North Main St
Linden TN 37097
(012) 345-6789

COMPANY NAME
Company Slogan

COMPANY NAME
Company Slogan

Small Town Solar
Site Information

Helpful Tips:

General Site Information.

Report Name	John Smith
Report Date	6/6/2016
Declination	-2d 48m
Location	Linden, TN 37096
Lat/Long	35.598 / -87.852
Weather Station	Jackson-McKellar Sipes Rgnl AP, TN, Elevation: 433 Feet, (35.600 / -88.917)
Site Distance	60 Miles
Extreme Temperatures (low, high)	-0.4 °F, 95.0 °F
Report Type	PV
Electric Cost	0.15 ($/kWh)
Utility Voltage	240 VAC
Grid Frequency	60 Hertz
Design Count	2
Design 1 Name	Without Micro Inverters
Design 2 Name	With Micro Inverters

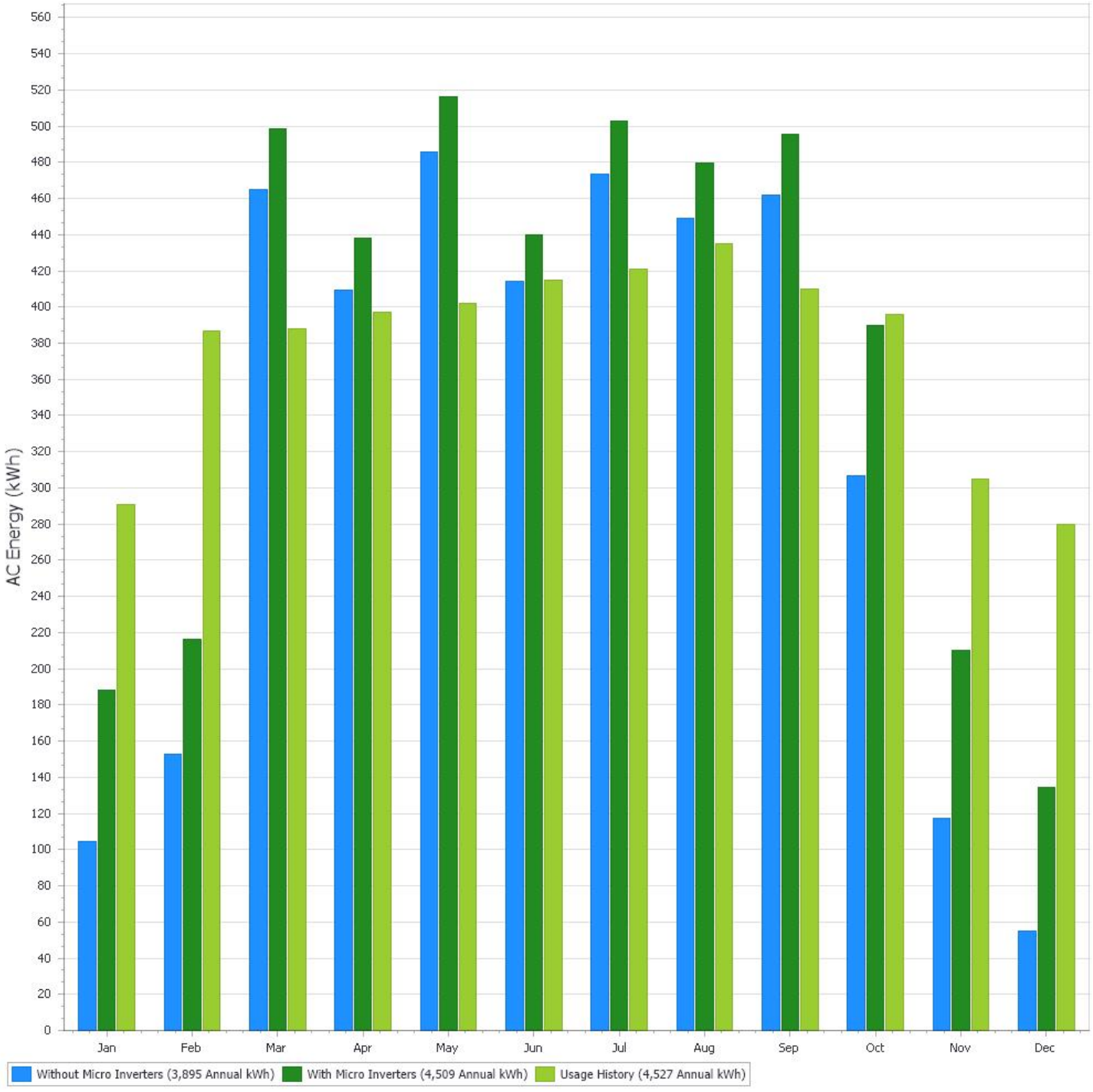
Notes: Quote #60106

COMPANY NAME
Company Slogan

Small Town Solar
Monthly Production Graph

Helpful Tips:

View client's usage history against each design production.

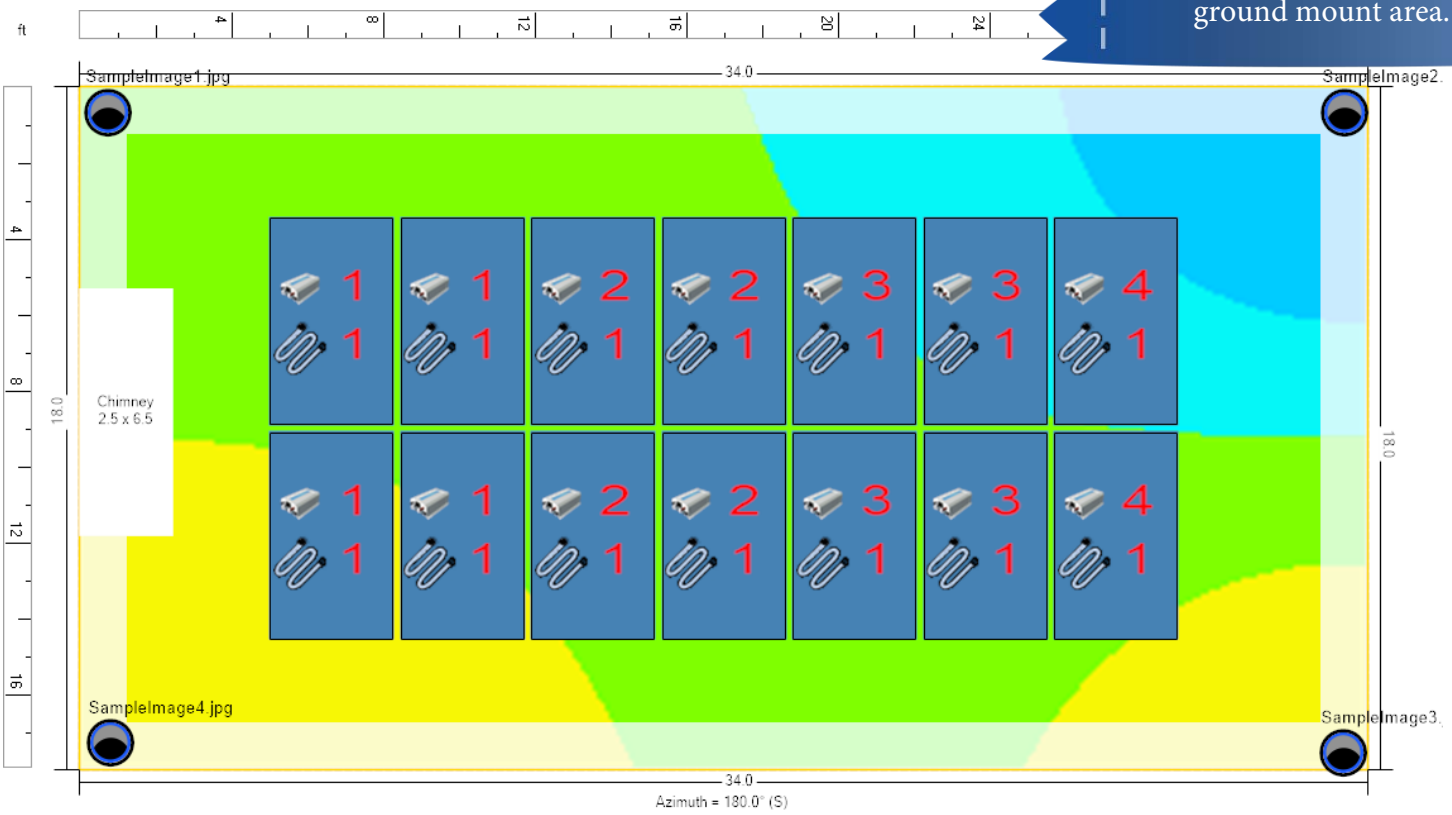


COMPANY NAME
Company Slogan

Small Town Solar
Without Micro Inverters: Solar Target

Helpful Tips:

The Solar Target shows the percentate of total annual insolation for the entire roof or ground mount area.



Percent of Total Annual Insolation

84-80%	79-75%	74-70%	69-65%

Roof Setbacks	Top = 15 in, Right = 15 in, Bottom = 15 in, Left = 15 in
Spacing Between Modules	Vertical = 2 in, Horizontal = 2 in

COMPANY NAME
Company Slogan

Small Town Solar
Without Micro Inverters: Summary Results

Helpful Tips:

View detailed report columne's and Solar Obstruction Data.

Array Type	Fixed Angle
Tilt Angle	45.00 deg
Ideal Tilt Angle	35.60 deg
Azimuth	180.00 deg
Ideal Azimuth	180.00 deg
Total Solar Resource Fraction (TSRF)	78.6 %
AC Energy Efficiency	78.9 %
Combined Inverter Efficiency	96.0 %
System Loss Percentage	11.4 %
DC to AC Derate Factor	0.850
Unshaded Percent	76.8 %
Array DC Rating	2.85 kW
Array AC Rating	2.42 kW
Inverter 1-4	Clenergy, SPH50 (5,205 Watts, Efficiency = 96.0 %)
Module Name	SolarWorld, Sunmodule Plus SW 265 mono (265 Watts)
Module Type	Standard
Equipment Count	4 inverters & 14 modules

Inverter/Module Configuration:

Inverter 1 - 1 string, 4 modules

Inverter 2 - 1 string, 4 modules

Inverter 3 - 1 string, 4 modules

Inverter 4 - 1 string, 2 modules

Solar Obstruction Data (Part 1 of 3)

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=35.6	Ideal Unshaded Solar Radiation Azimuth=180(S) Tilt=35.6 kWh/m²/day	Actual Unshaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Actual Shaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Deciduous Area(s) Solar Radiation kWh/m²/day Transparency = 50%	CSI-EPBB Shading Derate Factor (%)
January	34.4 %	2.98	3.09	1.05	0.04	34.0 %
February	54.8 %	3.34	3.39	1.85	0.00	54.5 %
March	95.6 %	5.32	5.29	5.04	0.00	95.3 %
April	97.8 %	5.00	4.80	4.68	0.00	97.6 %
May	98.9 %	5.90	5.49	5.44	0.00	98.9 %
June	98.4 %	5.41	4.99	4.92	0.00	98.5 %
July	98.7 %	5.93	5.50	5.43	0.00	98.7 %
August	98.0 %	5.54	5.27	5.16	0.00	97.9 %
September	96.2 %	5.81	5.72	5.47	0.00	95.7 %
October	68.7 %	4.95	5.04	3.40	0.00	67.5 %
November	37.0 %	3.57	3.71	1.33	0.04	35.8 %
December	21.6 %	2.63	2.75	0.58	0.04	21.0 %
Totals	**75.0 % Unweighted Yearly Avg**	**56.39 Effect: 100.0 % Sun Hrs: 4.70**	**55.04 Effect: 97.6 % Sun Hrs: 4.59**	**44.34 Effect: 78.6 % Sun Hrs: 3.70**	**0.13 Effect: 0.2 % Sun Hrs: 0.01**	**93 % May-Oct Avg**

COMPANY NAME
Company Slogan

Small Town Solar
Without Micro Inverters: Summary Results

Solar Obstruction Data (Part 2 of 3)

Month	Unshaded % of Actual Site Azimuth=180.0 Tilt=45.00	Total Solar Resource Fraction (TSRF) Azimuth=180.0 Tilt=45.00	Ideal Site Efficiency Azimuth=180(S) Tilt=35.6	AC Energy Efficiency Azimuth=180.0 Tilt=45.0	Actual Shaded AC Energy (kWh) Azimuth=180.00 Tilt=45.00	Actual Unshaded AC Energy (kWh) Azimuth=180.0 Tilt=45.00
January	34.0 %	35.2 %	34.2 %	36.2 %	104.47	299.95
February	54.5 %	55.3 %	54.7 %	55.7 %	152.60	277.04
March	95.3 %	94.9 %	95.3 %	96.0 %	465.01	481.13
April	97.6 %	93.6 %	97.5 %	94.1 %	409.47	415.31
May	98.9 %	92.2 %	98.9 %	92.7 %	485.58	486.21
June	98.5 %	90.9 %	98.4 %	91.4 %	414.01	415.03
July	98.7 %	91.5 %	98.7 %	92.2 %	473.36	474.00
August	97.9 %	93.0 %	97.8 %	93.6 %	449.34	454.54
September	95.7 %	94.2 %	95.6 %	95.7 %	461.59	474.76
October	67.5 %	68.7 %	67.6 %	69.0 %	306.65	451.10
November	35.8 %	37.2 %	35.9 %	37.5 %	117.59	325.36
December	21.0 %	22.0 %	21.2 %	22.7 %	54.99	254.04
Totals	**80.6 % Unweighted Yearly Avg**	**78.6 % Unweighted Yearly Avg**	**81.5 % Unweighted Yearly Avg**	**78.9 %**	**3,894.66**	**4,808.46**

Solar Obstruction Data (Part 3 of 3)

Month	Ideal Unshaded AC Energy (kWh) Azimuth=180.0 Tilt=35.60	PV Solar Cost Savings 0.15 ($/kWh)
January	288.86	$15.67
February	274.11	$22.89
March	484.59	$69.75
April	435.30	$61.42
May	523.60	$72.84
June	453.00	$62.10
July	513.34	$71.00
August	479.85	$67.40
September	482.51	$69.24
October	444.19	$46.00
November	313.57	$17.64
December	242.42	$8.25
Totals	**4,935.35**	**$584.20**

Deciduous Calculation Data

Transparency: 50 %

Months with no leaves: October through April

COMPANY NAME
Company Slogan

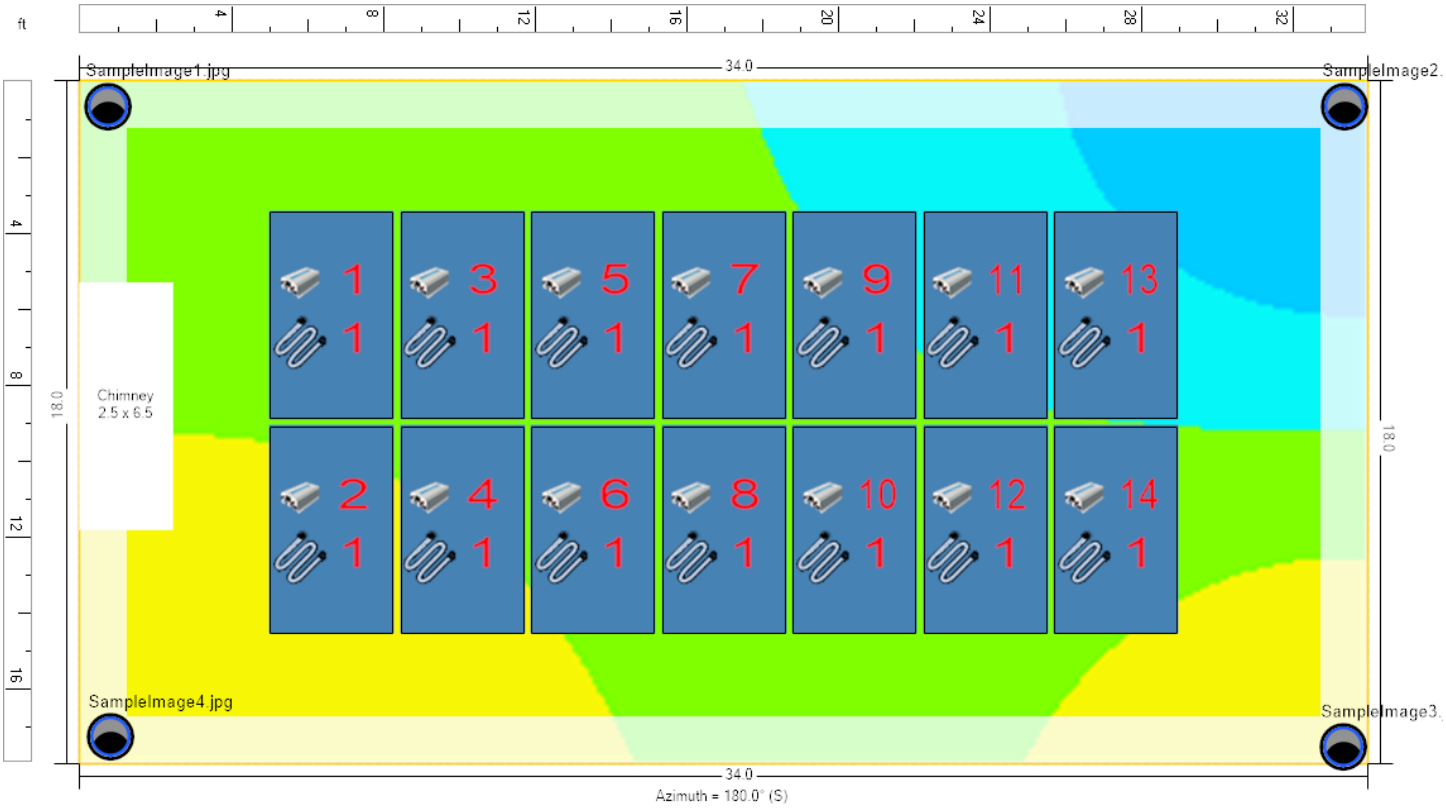
Small Town Solar
Without Micro Inverters: Site Image

Helpful Tips:

With the new Site Image Overlay feature you can provide your client an idea of what the arrays will look like on their roof.

COMPANY NAME
Company Slogan

Small Town Solar
With Micro Inverters: Solar Target



Percent of Total Annual Insolation

84-80%	79-75%	74-70%	69-65%

Roof Setbacks	Top = 15 in, Right = 15 in, Bottom = 15 in, Left = 15 in
Spacing Between Modules	Vertical = 2 in, Horizontal = 2 in

COMPANY NAME
Company Slogan

Small Town Solar
With Micro Inverters: Summary Results

Array Type	Fixed Angle
Tilt Angle	45.00 deg
Ideal Tilt Angle	35.60 deg
Azimuth	180.00 deg
Ideal Azimuth	180.00 deg
Total Solar Resource Fraction (TSRF)	80.1 %
AC Energy Efficiency	80.4 %
Combined Inverter Efficiency	96.5 %
System Loss Percentage	11.4 %
DC to AC Derate Factor	0.855
Unshaded Percent	76.8 %
Array DC Rating	3.01 kW
Array AC Rating	2.57 kW
Inverter 1-14	Enphase Energy Inc., M215-60-2LL-S22-IG/S23-IG/S24-IG (270 Watts, Efficiency = 96.5 %)
Module Name	SolarWorld, Sunmodule Plus SW 280 mono (280 Watts)
Module Type	Standard
Equipment Count	14 inverters & 14 modules

Inverter/Module Configuration:

14 modules have an attached microinverter

Solar Obstruction Data (Part 1 of 3)

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=35.6	Ideal Unshaded Solar Radiation Azimuth=180(S) Tilt=35.6 kWh/m²/day	Actual Unshaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Actual Shaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Deciduous Area(s) Solar Radiation kWh/m²/day Transparency = 50%	CSI-EPBB Shading Derate Factor (%)
January	38.4 %	2.98	3.09	1.18	0.07	38.0 %
February	60.0 %	3.34	3.39	2.02	0.00	59.6 %
March	95.3 %	5.32	5.29	5.02	0.00	95.0 %
April	98.1 %	5.00	4.80	4.70	0.00	98.0 %
May	98.9 %	5.90	5.49	5.44	0.00	99.0 %
June	98.5 %	5.41	4.99	4.92	0.00	98.5 %
July	98.7 %	5.93	5.50	5.43	0.00	98.7 %
August	98.3 %	5.54	5.27	5.17	0.00	98.2 %
September	96.2 %	5.81	5.72	5.48	0.00	95.8 %
October	72.6 %	4.95	5.04	3.61	0.00	71.7 %
November	42.0 %	3.57	3.71	1.52	0.06	40.9 %
December	24.9 %	2.63	2.75	0.67	0.06	24.3 %
Totals	**76.8 % Unweighted Yearly Avg**	**56.39 Effect: 100.0 % Sun Hrs: 4.70**	**55.04 Effect: 97.6 % Sun Hrs: 4.59**	**45.16 Effect: 80.1 % Sun Hrs: 3.76**	**0.19 Effect: 0.3 % Sun Hrs: 0.02**	**94 % May-Oct Avg**

COMPANY NAME
Company Slogan

Small Town Solar
With Micro Inverters: Summary Results

Solar Obstruction Data (Part 2 of 3)

Month	Unshaded % of Actual Site Azimuth=180.0 Tilt=45.00	Total Solar Resource Fraction (TSRF) Azimuth=180.0 Tilt=45.00	Ideal Site Efficiency Azimuth=180(S) Tilt=35.6	AC Energy Efficiency Azimuth=180.0 Tilt=45.0	Actual Shaded AC Energy (kWh) Azimuth=180.00 Tilt=45.00	Actual Unshaded AC Energy (kWh) Azimuth=180.0 Tilt=45.00
January	38.0 %	39.4 %	38.2 %	40.4 %	188.26	318.58
February	59.6 %	60.5 %	59.8 %	61.0 %	216.15	294.25
March	95.0 %	94.5 %	95.0 %	95.6 %	498.39	511.01
April	98.0 %	94.0 %	97.9 %	94.4 %	437.92	441.11
May	99.0 %	92.2 %	98.9 %	92.7 %	515.98	516.40
June	98.5 %	91.0 %	98.5 %	91.4 %	440.14	440.81
July	98.7 %	91.5 %	98.7 %	92.2 %	502.97	503.43
August	98.2 %	93.3 %	98.1 %	93.9 %	479.90	482.77
September	95.8 %	94.3 %	95.7 %	95.8 %	495.27	504.25
October	71.7 %	72.9 %	71.8 %	73.3 %	389.96	479.11
November	40.9 %	42.6 %	41.1 %	43.0 %	209.99	345.57
December	24.3 %	25.5 %	24.5 %	26.3 %	134.33	269.82
Totals	**82.0 % Unweighted Yearly Avg**	**80.1 % Unweighted Yearly Avg**	**82.9 % Unweighted Yearly Avg**	**80.4 %**	**4,509.26**	**5,107.10**

Solar Obstruction Data (Part 3 of 3)

Month	Ideal Unshaded AC Energy (kWh) Azimuth=180.0 Tilt=35.60	PV Solar Cost Savings 0.15 ($/kWh)
January	306.80	$28.24
February	291.14	$32.42
March	514.69	$74.76
April	462.34	$65.69
May	556.12	$77.40
June	481.13	$66.02
July	545.22	$75.44
August	509.65	$71.98
September	512.48	$74.29
October	471.78	$58.49
November	333.05	$31.50
December	257.48	$20.15
Totals	**5,241.87**	**$676.39**

Deciduous Calculation Data

Transparency: 50 %

Months with no leaves: October through April

COMPANY NAME
Company Slogan

Small Town Solar
With Micro Inverters: Site Image

COMPANY NAME
Company Slogan

Small Town Solar
Site Survey Images and Data

Site Survey Name: "SampleImage1.jpg"

Array Type	Fixed Angle
Tilt Angle	45.00 deg
Ideal Tilt Angle	35.60 deg
Azimuth	180.00 deg
Ideal Azimuth	180.00 deg

Solar Obstruction Data (Part 1 of 2)

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=35.6	Ideal Unshaded Solar Radiation Azimuth=180(S) Tilt=35.6 kWh/m²/day	Actual Unshaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Actual Shaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Deciduous Area(s) Solar Radiation kWh/m²/day Transparency = 50%	CSI-EPBB Shading Derate Factor (%)
January	35.5 %	2.98	3.09	1.08	0.00	34.8 %
February	53.5 %	3.34	3.39	1.80	0.00	52.9 %
March	95.4 %	5.32	5.29	5.02	0.00	94.9 %
April	99.0 %	5.00	4.80	4.75	0.00	99.0 %
May	98.7 %	5.90	5.49	5.41	0.00	98.6 %
June	97.8 %	5.41	4.99	4.88	0.00	97.8 %
July	98.3 %	5.93	5.50	5.40	0.00	98.3 %
August	99.4 %	5.54	5.27	5.24	0.00	99.4 %
September	94.9 %	5.81	5.72	5.37	0.00	93.9 %
October	79.9 %	4.95	5.04	3.95	0.00	78.3 %
November	35.5 %	3.57	3.71	1.22	0.00	33.0 %
December	19.5 %	2.63	2.75	0.51	0.00	18.6 %
Totals	**75.6 % Unweighted Yearly Avg**	**56.39 Effect: 100.0 % Sun Hrs: 4.70**	**55.04 Effect: 97.6 % Sun Hrs: 4.59**	**44.63 Effect: 79.2 % Sun Hrs: 3.72**	**0.00 Effect: 0.0 % Sun Hrs: 0.00**	**95 % May-Oct Avg**

Solar Obstruction Data (Part 2 of 2)

Month	Unshaded % of Actual Site Azimuth=180.0 Tilt=45.00	Total Solar Resource Fraction (TSRF) Azimuth=180.0 Tilt=45.00	Ideal Site Efficiency Azimuth=180(S) Tilt=35.6
January	34.8 %	36.1 %	35.0 %
February	52.9 %	53.7 %	53.1 %
March	94.9 %	94.5 %	94.9 %
April	99.0 %	94.9 %	98.9 %
May	98.6 %	91.8 %	98.5 %
June	97.8 %	90.3 %	97.7 %
July	98.3 %	91.1 %	98.2 %
August	99.4 %	94.4 %	99.4 %
September	93.9 %	92.5 %	93.8 %
October	78.3 %	79.7 %	78.4 %
November	33.0 %	34.3 %	33.1 %
December	18.6 %	19.5 %	18.7 %
Totals	**81.1 % Unweighted Yearly Avg**	**79.2 % Unweighted Yearly Avg**	**82.0 % Unweighted Yearly Avg**

Deciduous Calculation Data

Transparency: 50 %

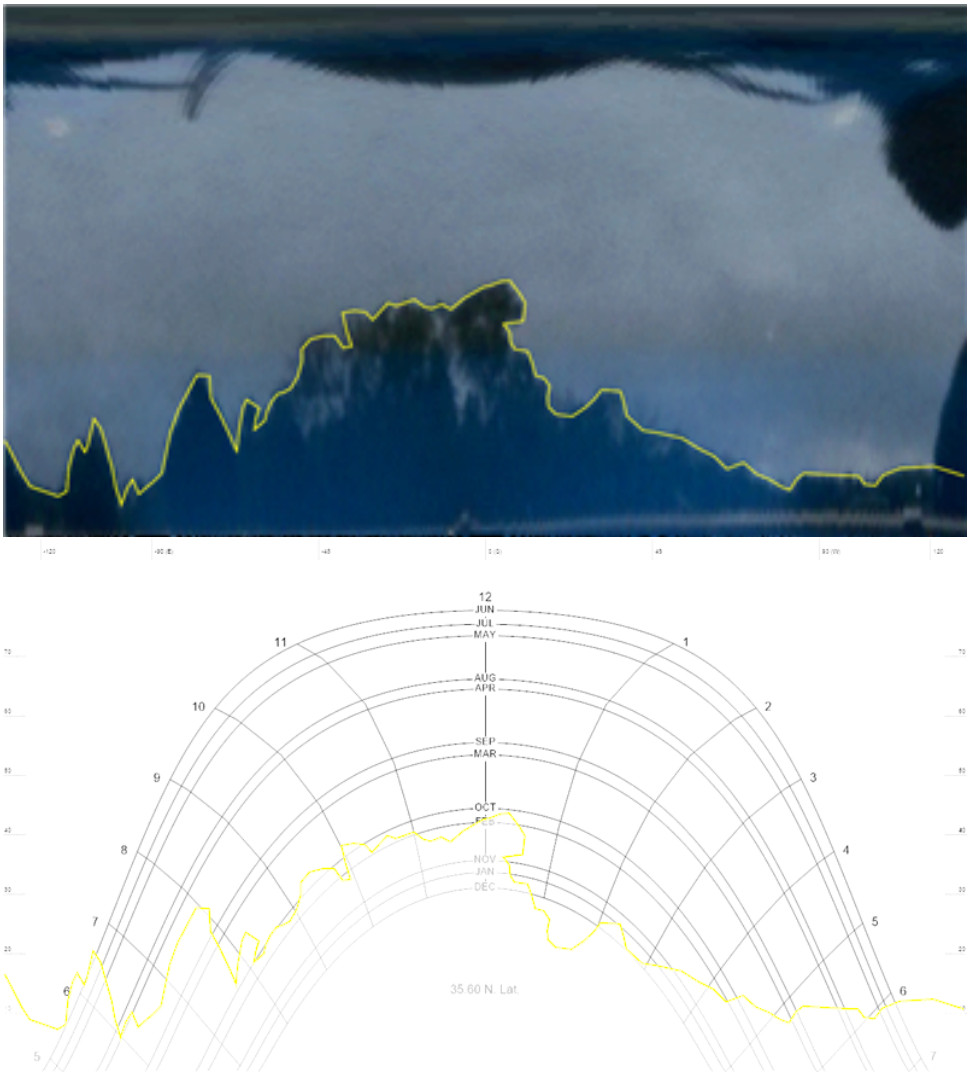
Months with no leaves: October through April

COMPANY NAME
Company Slogan

Small Town Solar
Site Survey Images and Data

Site Survey Name: "SampleImage1.jpg"

Unshaded Percent = 76 %



Azimuth/Altitude Data

Azimuth / Altitude (degrees) where South = 0 degrees											
-125	10.5	-80	25.0	-35	38.0	10	40.0	55	16.0	100	10.5
-120 (ENE)	**8.0**	-75	27.5	**-30 (SSE)**	**37.0**	15	27.0	**60 (WSW)**	**14.0**	105	9.0
-115	7.0	-70	18.5	-25	39.5	20	20.5	65	11.5	110	11.5
-110	16.5	-65	23.0	-20	40.0	25	21.5	70	12.5	115	12.0
-105	19.5	**-60 (ESE)**	**19.5**	-15	38.5	**30 (SSW)**	**24.0**	75	10.0	**120 (WNW)**	**12.0**
-100	8.5	-55	24.5	-10	38.5	35	25.0	80	8.5	125	11.0
-95	9.0	-50	29.0	-5	41.0	40	19.5	85	10.5		
-90 (E)	**9.5**	**-45 (SE)**	**34.0**	**0 (S)**	**42.5**	**45 (SW)**	**18.0**	**90 (W)**	**10.5**		
-85	18.0	-40	33.5	5	43.5	50	17.0	95	10.5		

COMPANY NAME
Company Slogan

Small Town Solar
Site Survey Images and Data

Site Survey Name: "SampleImage2.jpg"

Array Type	Fixed Angle
Tilt Angle	45.00 deg
Ideal Tilt Angle	35.60 deg
Azimuth	180.00 deg
Ideal Azimuth	180.00 deg

Solar Obstruction Data (Part 1 of 2)

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=35.6	Ideal Unshaded Solar Radiation Azimuth=180(S) Tilt=35.6 kWh/m²/day	Actual Unshaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Actual Shaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Deciduous Area(s) Solar Radiation kWh/m²/day Transparency = 50%	CSI-EPBB Shading Derate Factor (%)
January	14.6 %	2.98	3.09	0.44	0.00	14.1 %
February	31.8 %	3.34	3.39	1.07	0.00	31.5 %
March	97.7 %	5.32	5.29	5.15	0.00	97.4 %
April	95.5 %	5.00	4.80	4.54	0.00	94.7 %
May	99.3 %	5.90	5.49	5.46	0.00	99.3 %
June	98.7 %	5.41	4.99	4.93	0.00	98.7 %
July	99.1 %	5.93	5.50	5.45	0.00	99.1 %
August	95.8 %	5.54	5.27	5.02	0.00	95.3 %
September	97.3 %	5.81	5.72	5.53	0.00	96.7 %
October	41.9 %	4.95	5.04	2.00	0.00	39.7 %
November	13.9 %	3.57	3.71	0.48	0.00	12.8 %
December	7.9 %	2.63	2.75	0.21	0.00	7.5 %
Totals	**66.1 % Unweighted Yearly Avg**	**56.39 Effect: 100.0 % Sun Hrs: 4.70**	**55.04 Effect: 97.6 % Sun Hrs: 4.59**	**40.27 Effect: 71.4 % Sun Hrs: 3.36**	**0.00 Effect: 0.0 % Sun Hrs: 0.00**	**89 % May-Oct Avg**

Solar Obstruction Data (Part 2 of 2)

Month	Unshaded % of Actual Site Azimuth=180.0 Tilt=45.00	Total Solar Resource Fraction (TSRF) Azimuth=180.0 Tilt=45.00	Ideal Site Efficiency Azimuth=180(S) Tilt=35.6
January	14.1 %	14.7 %	14.2 %
February	31.5 %	32.0 %	31.7 %
March	97.4 %	97.0 %	97.4 %
April	94.7 %	90.8 %	94.5 %
May	99.3 %	92.5 %	99.3 %
June	98.7 %	91.1 %	98.8 %
July	99.1 %	91.9 %	99.2 %
August	95.3 %	90.6 %	95.1 %
September	96.7 %	95.2 %	96.7 %
October	39.7 %	40.3 %	39.7 %
November	12.8 %	13.3 %	12.9 %
December	7.5 %	7.8 %	7.5 %
Totals	**73.2 % Unweighted Yearly Avg**	**71.4 % Unweighted Yearly Avg**	**74.4 % Unweighted Yearly Avg**

Deciduous Calculation Data

Transparency: 50 %

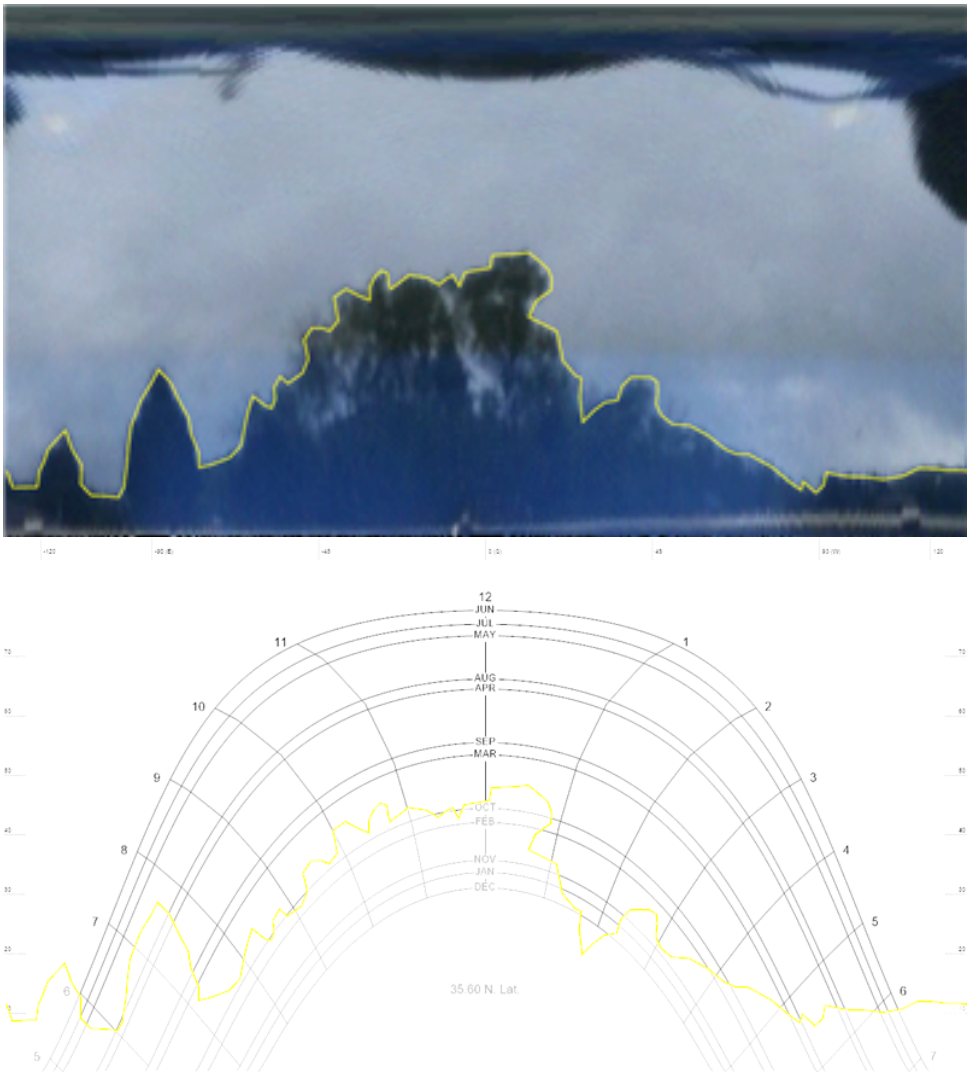
Months with no leaves: October through April

COMPANY NAME
Company Slogan

Small Town Solar
Site Survey Images and Data

Site Survey Name: "SampleImage2.jpg"

Unshaded Percent = 66 %



Azimuth/Altitude Data

Azimuth / Altitude (degrees) where South = 0 degrees											
-125	8.5	-80	19.0	-35	41.0	10	48.0	55	19.0	100	10.5
-120 (ENE)	**12.0**	-75	12.0	**-30 (SSE)**	**44.0**	15	46.0	**60 (WSW)**	**17.0**	105	10.0
-115	17.0	-70	13.5	-25	42.5	20	32.0	65	15.0	110	10.0
-110	13.0	-65	19.5	-20	44.0	25	27.0	70	14.0	115	11.0
-105	7.0	**-60 (ESE)**	**22.5**	-15	43.5	**30 (SSW)**	**22.0**	75	12.5	**120 (WNW)**	**11.5**
-100	7.0	-55	27.0	-10	44.0	35	23.0	80	10.5	125	11.5
-95	20.0	-50	27.5	-5	45.0	40	27.0	85	8.5		
-90 (E)	**26.5**	**-45 (SE)**	**35.5**	**0 (S)**	**45.5**	**45 (SW)**	**27.0**	**90 (W)**	**8.5**		
-85	26.0	-40	41.0	5	47.5	50	19.0	95	10.5		

COMPANY NAME
Company Slogan

Small Town Solar
Site Survey Images and Data

Site Survey Name: "SampleImage3.jpg"

Array Type	Fixed Angle
Tilt Angle	45.00 deg
Ideal Tilt Angle	35.60 deg
Azimuth	180.00 deg
Ideal Azimuth	180.00 deg

Solar Obstruction Data (Part 1 of 2)

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=35.6	Ideal Unshaded Solar Radiation Azimuth=180(S) Tilt=35.6 kWh/m²/day	Actual Unshaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Actual Shaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Deciduous Area(s) Solar Radiation kWh/m²/day Transparency = 50%	CSI-EPBB Shading Derate Factor (%)
January	52.2 %	2.98	3.09	1.61	0.00	52.0 %
February	75.5 %	3.34	3.39	2.55	0.00	75.2 %
March	93.4 %	5.32	5.29	4.94	0.00	93.4 %
April	98.4 %	5.00	4.80	4.73	0.00	98.7 %
May	98.3 %	5.90	5.49	5.42	0.00	98.6 %
June	98.2 %	5.41	4.99	4.91	0.00	98.4 %
July	98.0 %	5.93	5.50	5.40	0.00	98.2 %
August	98.4 %	5.54	5.27	5.19	0.00	98.6 %
September	94.0 %	5.81	5.72	5.38	0.00	94.0 %
October	80.1 %	4.95	5.04	4.09	0.00	81.2 %
November	62.6 %	3.57	3.71	2.31	0.00	62.2 %
December	33.8 %	2.63	2.75	0.93	0.00	33.9 %
Totals	**81.9 % Unweighted Yearly Avg**	**56.39 Effect: 100.0 % Sun Hrs: 4.70**	**55.04 Effect: 97.6 % Sun Hrs: 4.59**	**47.46 Effect: 84.2 % Sun Hrs: 3.96**	**0.00 Effect: 0.0 % Sun Hrs: 0.00**	**95 % May-Oct Avg**

Solar Obstruction Data (Part 2 of 2)

Month	Unshaded % of Actual Site Azimuth=180.0 Tilt=45.00	Total Solar Resource Fraction (TSRF) Azimuth=180.0 Tilt=45.00	Ideal Site Efficiency Azimuth=180(S) Tilt=35.6
January	52.0 %	54.0 %	52.4 %
February	75.2 %	76.3 %	75.4 %
March	93.4 %	92.9 %	93.3 %
April	98.7 %	94.6 %	98.6 %
May	98.6 %	91.9 %	98.5 %
June	98.4 %	90.8 %	98.3 %
July	98.2 %	91.1 %	98.1 %
August	98.6 %	93.7 %	98.5 %
September	94.0 %	92.5 %	93.9 %
October	81.2 %	82.5 %	81.3 %
November	62.2 %	64.6 %	62.4 %
December	33.9 %	35.5 %	34.1 %
Totals	**86.2 % Unweighted Yearly Avg**	**84.2 % Unweighted Yearly Avg**	**86.9 % Unweighted Yearly Avg**

Deciduous Calculation Data

Transparency: 50 %

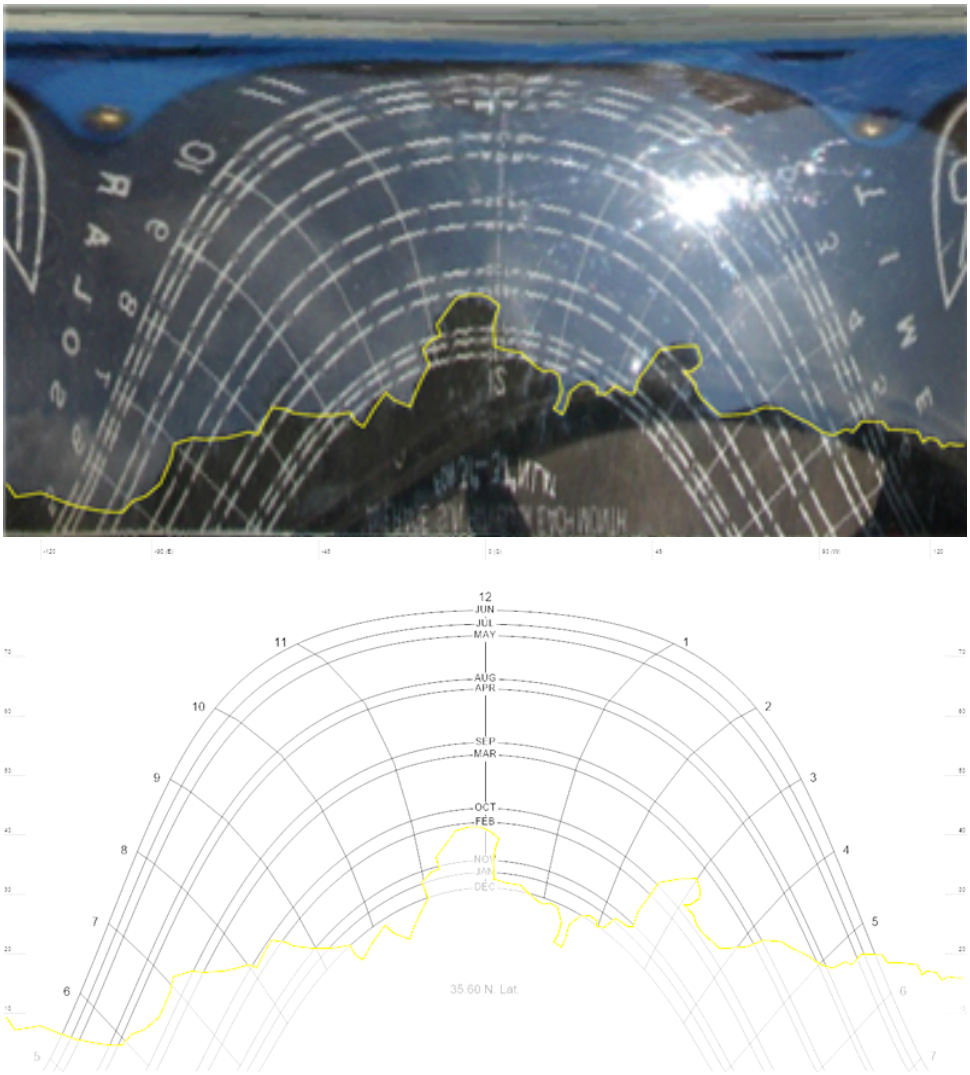
Months with no leaves: October through April

COMPANY NAME
Company Slogan

Small Town Solar
Site Survey Images and Data

Site Survey Name: "SampleImage3.jpg"

Unshaded Percent = 82 %



Azimuth/Altitude Data

Azimuth / Altitude (degrees) where South = 0 degrees											
-125	7.0	-80	16.5	-35	19.5	10	31.0	55	32.5	100	18.5
-120 (ENE)	**7.5**	-75	16.5	**-30 (SSE)**	**22.0**	15	28.0	**60 (WSW)**	**22.5**	105	19.5
-115	6.5	-70	17.0	-25	23.5	20	26.0	65	20.5	110	18.0
-110	5.5	-65	17.5	-20	23.0	25	26.0	70	21.0	115	18.0
-105	4.5	**-60 (ESE)**	**19.5**	-15	33.0	**30 (SSW)**	**24.5**	75	22.0	**120 (WNW)**	**16.5**
-100	4.0	-55	22.0	-10	39.0	35	25.5	80	21.5	125	16.0
-95	6.5	-50	21.0	-5	41.0	40	24.5	85	20.0		
-90 (E)	**8.0**	**-45 (SE)**	**20.5**	**0 (S)**	**40.5**	**45 (SW)**	**30.0**	**90 (W)**	**18.0**		
-85	13.5	-40	21.0	5	31.5	50	32.0	95	17.5		

COMPANY NAME
Company Slogan

Small Town Solar
Site Survey Images and Data

Site Survey Name: "SampleImage4.jpg"

Array Type	Fixed Angle
Tilt Angle	45.00 deg
Ideal Tilt Angle	35.60 deg
Azimuth	180.00 deg
Ideal Azimuth	180.00 deg

Solar Obstruction Data (Part 1 of 2)

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=35.6	Ideal Unshaded Solar Radiation Azimuth=180(S) Tilt=35.6 kWh/m²/day	Actual Unshaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Actual Shaded Solar Radiation Azimuth=180.0 Tilt=45.0 kWh/m²/day	Deciduous Area(s) Solar Radiation kWh/m²/day Transparency = 50%	CSI-EPBB Shading Derate Factor (%)
January	51.4 %	2.98	3.09	1.58	0.26	51.1 %
February	79.3 %	3.34	3.39	2.68	0.00	78.9 %
March	94.7 %	5.32	5.29	4.98	0.00	94.2 %
April	99.6 %	5.00	4.80	4.78	0.00	99.7 %
May	99.4 %	5.90	5.49	5.46	0.00	99.4 %
June	99.2 %	5.41	4.99	4.95	0.00	99.2 %
July	99.2 %	5.93	5.50	5.46	0.00	99.2 %
August	99.5 %	5.54	5.27	5.24	0.00	99.5 %
September	98.6 %	5.81	5.72	5.63	0.00	98.5 %
October	88.3 %	4.95	5.04	4.42	0.00	87.7 %
November	56.3 %	3.57	3.71	2.08	0.25	56.1 %
December	38.4 %	2.63	2.75	1.03	0.25	37.4 %
Totals	**83.7 % Unweighted Yearly Avg**	**56.39 Effect: 100.0 % Sun Hrs: 4.70**	**55.04 Effect: 97.6 % Sun Hrs: 4.59**	**48.29 Effect: 85.6 % Sun Hrs: 4.02**	**0.75 Effect: 1.3 % Sun Hrs: 0.06**	**97 % May-Oct Avg**

Solar Obstruction Data (Part 2 of 2)

Month	Unshaded % of Actual Site Azimuth=180.0 Tilt=45.00	Total Solar Resource Fraction (TSRF) Azimuth=180.0 Tilt=45.00	Ideal Site Efficiency Azimuth=180(S) Tilt=35.6
January	51.1 %	53.0 %	51.4 %
February	78.9 %	80.1 %	79.1 %
March	94.2 %	93.8 %	94.2 %
April	99.7 %	95.5 %	99.6 %
May	99.4 %	92.6 %	99.4 %
June	99.2 %	91.6 %	99.2 %
July	99.2 %	92.0 %	99.3 %
August	99.5 %	94.6 %	99.5 %
September	98.5 %	96.9 %	98.4 %
October	87.7 %	89.2 %	87.8 %
November	56.1 %	58.3 %	56.4 %
December	37.4 %	39.2 %	37.7 %
Totals	**87.7 % Unweighted Yearly Avg**	**85.6 % Unweighted Yearly Avg**	**88.4 % Unweighted Yearly Avg**

Deciduous Calculation Data

Transparency: 50 %

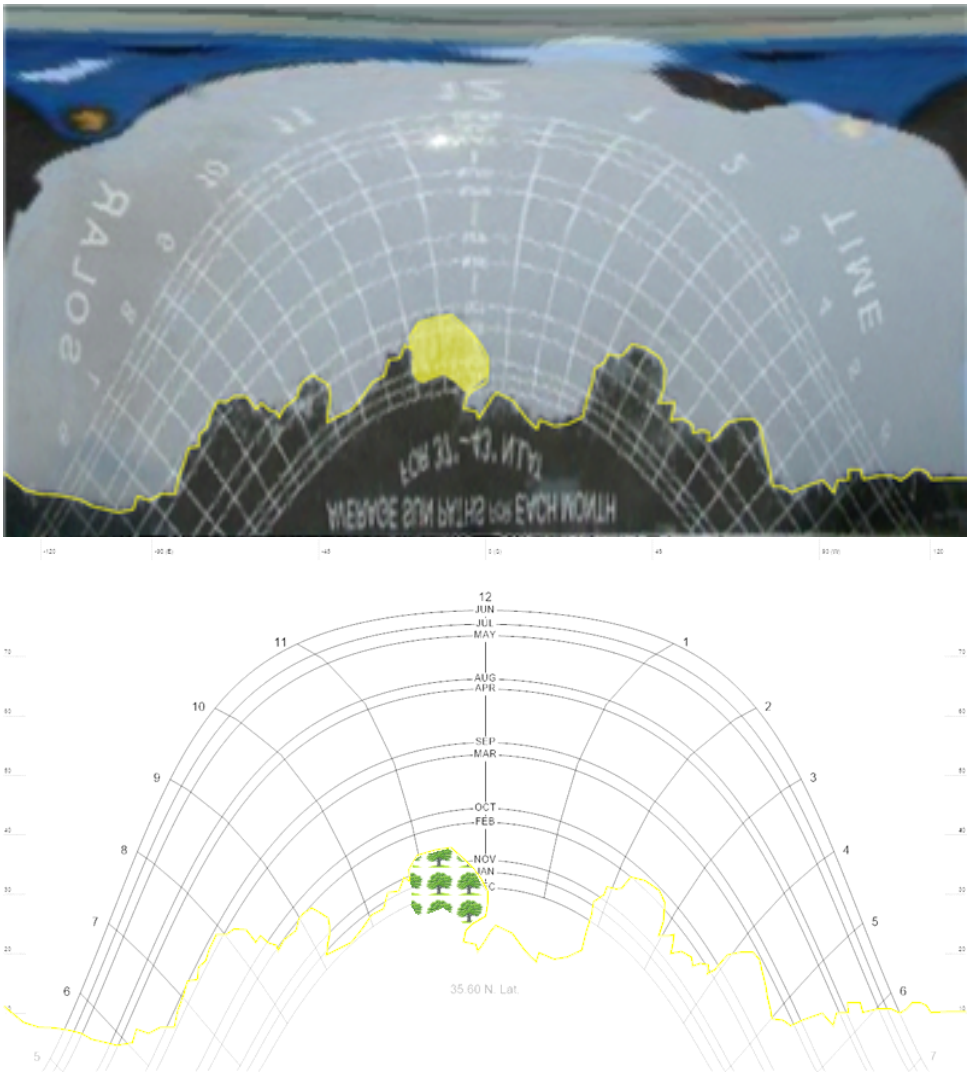
Months with no leaves: October through April

COMPANY NAME
Company Slogan

Small Town Solar
Site Survey Images and Data

Site Survey Name: "SampleImage4.jpg"

Unshaded Percent = 84 %



Azimuth/Altitude Data

Azimuth / Altitude (degrees) where South = 0 degrees											
-125	8.5	-80	15.0	-35	22.5	10	20.5	55	19.5	100	11.5
-120 (ENE)	**7.5**	-75	19.5	**-30 (SSE)**	**26.5**	15	19.5	**60 (WSW)**	**16.5**	105	10.5
-115	7.0	-70	23.0	-25	30.0	20	19.0	65	19.5	110	10.5
-110	6.5	-65	24.0	-20	34.5	25	20.0	70	20.0	115	11.5
-105	5.0	**-60 (ESE)**	**22.5**	-15	37.0	**30 (SSW)**	**29.0**	75	15.5	**120 (WNW)**	**10.0**
-100	4.5	-55	21.5	-10	37.5	35	30.5	80	8.5	125	10.0
-95	5.5	-50	26.0	-5	35.0	40	32.5	85	8.5		
-90 (E)	**6.5**	**-45 (SE)**	**26.5**	**0 (S)**	**31.0**	**45 (SW)**	**31.0**	**90 (W)**	**9.5**		
-85	7.5	-40	20.5	5	24.0	50	23.0	95	9.5		