



Western Sydney Solar Site Report

Report Name John Brown
Report Date 20/08/2011 3:59:29 PM
Declination 11d 48m
Location Lat/Long specified
Lat/Long -33.0 / 150.0
Weather Station Richmond RAAF, NSW, Elevation: 20 Meters, (-33.600/150.783)
Site Distance 99 Kilometers

Report Type PV

Array Type Fixed Angle
Tilt Angle 18.00 deg
Ideal Tilt Angle 33.00 deg
Azimuth 3.80 deg
Ideal Azimuth 0.00 deg

Electric Cost 0.26 (\$/KWH)
Panel Make Trina Solar
Panel Model TSM-220PA05
Panel Count 22
DC Rate (per panel) 220.0 Watts
Total System Size 4,840.0 Watts
Inverter Make Xantrex Technology
Inverter Model GT5.0-NA-240/208 (240V)
Inverter Count 1
Derate Method Using Components
Derate Factor 0.799

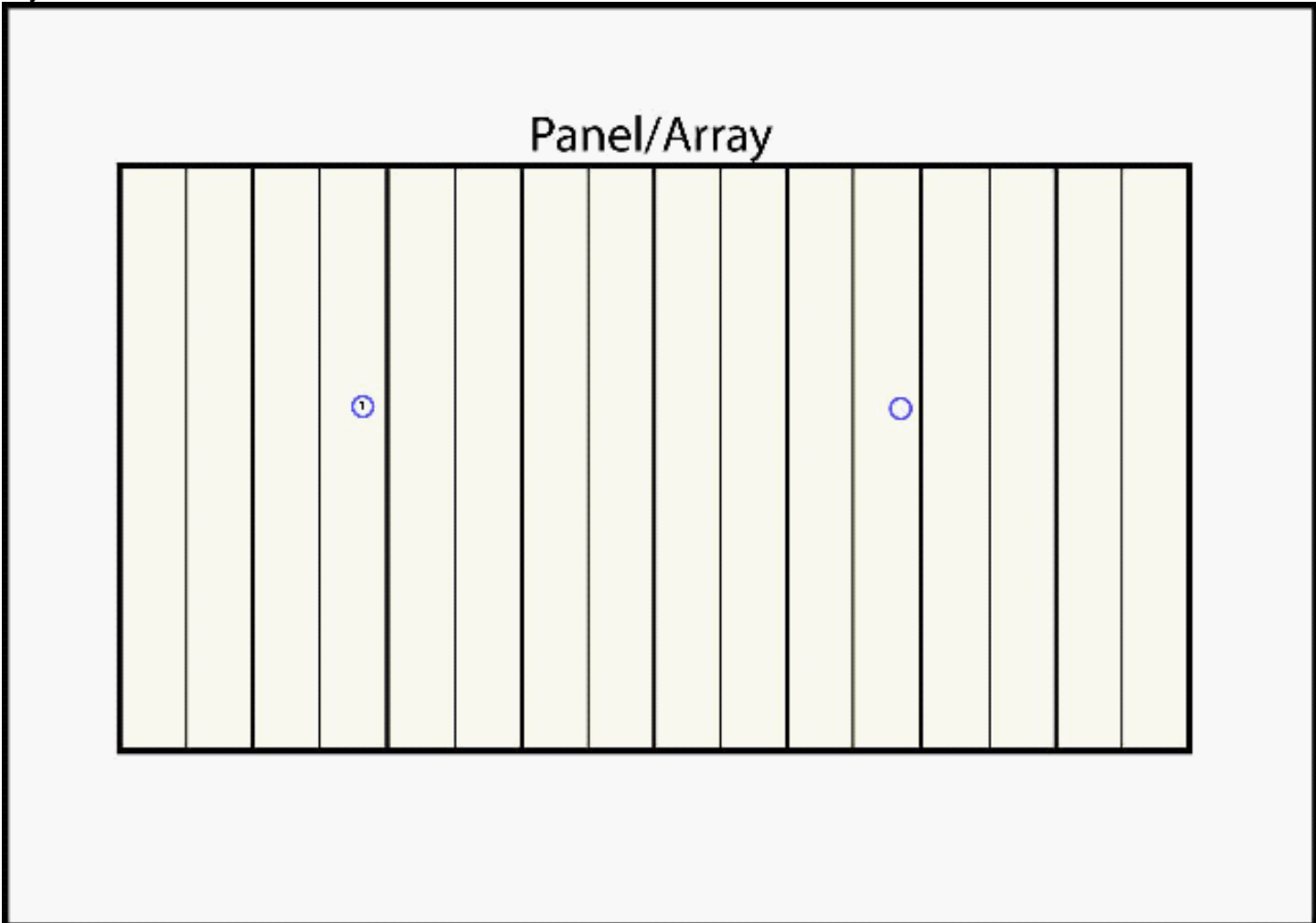
Layout Configuration Custom
Layout Point Count 2

Notes: Australia



Western Sydney Solar System Picture Layout

Layout Type Custom
Layout Point Count 2





Western Sydney Solar Summary Report

Solar Obstruction Data (Part 1 of 2)

Month	Unshaded % of Ideal Site Azimuth=0 Tilt=-33.0	Ideal Unshaded Solar Radiation Azimuth=0.0 Tilt=33.0 KWhr/m ²	Actual Unshaded Solar Radiation Azimuth=3.8 Tilt=18.0 KWhr/m ²	Actual Shaded Solar Radiation Azimuth=3.8 Tilt=18.0 KWhr/m ²	Actual Shaded AC Energy (KWH) Azimuth=3.80 Tilt=18.00	Actual Unshaded AC Energy (KWH) Azimuth=3.8 Tilt=18.00
January	98.70 %	5.69	6.11	6.07	641.32	642.00
February	99.59 %	5.61	5.81	5.79	547.91	548.00
March	81.01 %	5.04	4.97	4.01	441.44	547.00
April	39.17 %	5.45	5.06	1.89	195.27	524.00
May	19.66 %	4.75	4.18	0.78	85.58	470.00
June	17.04 %	3.93	3.41	0.55	57.12	374.00
July	18.41 %	4.11	3.59	0.64	70.73	416.00
August	36.37 %	4.99	4.53	1.60	179.82	512.00
September	55.87 %	5.35	5.16	2.81	300.26	560.00
October	99.89 %	6.06	6.17	6.09	674.00	676.00
November	99.39 %	5.84	6.22	6.14	634.00	636.00
December	98.90 %	5.94	6.45	6.37	682.40	684.00
Totals	63.67%	62.75	61.65	42.75	4,509.85	6,589.00
	Unweighted	Effect: 100.00%	Effect: 98.25%	Effect: 68.13%		
	Yearly Avg	Sun Hrs: 5.23	Sun Hrs: 5.14	Sun Hrs: 3.56		

Azimuth/Altitude Data

Azimuth / Altitude (degrees) where South = 180 degrees

55	38.5	100	0.5	60 (ENE)	36.0	105	6.5	65	33.0	110	9.5
70	28.5	115	12.0	75	23.0	120 (ESE)	9.0	80	0.0	125	0.0
85	0.0	130	0.0			90 (E)	1.0			95	0.0

Notes: Australia



Western Sydney Solar Summary Report

Solar Obstruction Data (Part 2 of 2)

Month	Ideal Unshaded AC Energy (KWH) Azimuth=0.0 Tilt=33.00	PVWatts Unshaded % Actual Site Azimuth=3.8 Tilt=18.00	Actual Site Efficiency % Azimuth=3.8 Tilt=18.00	Ideal Site Efficiency % Azimuth=0.0 Tilt=33.00
January	591.00	99.27 %	100.00 %	99.19 %
February	527.00	99.70 %	100.00 %	99.64 %
March	550.00	80.69 %	79.57 %	80.58 %
April	562.00	37.39 %	34.72 %	37.95 %
May	530.00	18.74 %	16.49 %	19.31 %
June	430.00	16.27 %	14.11 %	16.75 %
July	478.00	17.73 %	15.49 %	18.20 %
August	563.00	35.37 %	32.11 %	35.86 %
September	578.00	54.45 %	52.51 %	54.71 %
October	664.00	98.74 %	100.00 %	99.12 %
November	597.00	98.78 %	100.00 %	99.00 %
December	626.00	98.78 %	100.00 %	98.89 %
Totals	6,696.00	62.99 %	62.08 %	63.27 %
		Unweighted	Unweighted	Unweighted
		Yearly Avg	Yearly Avg	Yearly Avg



Western Sydney Solar Solar Site Analysis Report

Image File: "IMGP3395.JPG"

Layout Point: 2

Solar Obstruction Data (Part 1 of 2)

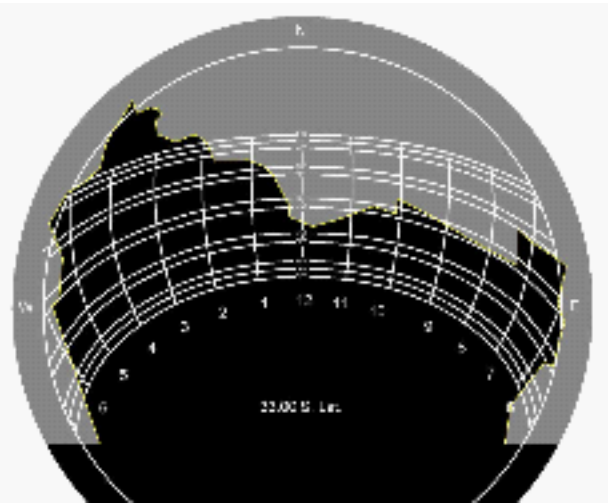
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Notes: Shaded





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