

**WhatPowerCrisis Ltd.  
Site Report**

**Report Name** Sample North Shore Auckland Rooftop  
**Report Date** 8/4/2009 4:13:59 PM  
**Declination** 19d 59m  
**Location** Lat/Long specified  
**Lat/Long** -37.79 / 174.77  
**Weather Station** AUCKLAND, , Elevation: 20 Feet, (-37.017/174.800)  
**Site distance** 54 Miles

**Report Type** PV

**Array Type** Fixed  
**Tilt Angle** 25.00 deg  
**Ideal Tilt Angle** 37.79 deg  
**Azimuth** 1.70 deg  
**Ideal Azimuth** 0.00 deg

**Electric Cost** 0.25 (\$/KWH)

**Panel Make** WPC  
**Panel Model** wpc-180  
**Panel Count** 36  
**DC Rate (per panel)** 180.0 W  
**Total System Size** 6,480.0 W  
**Inverter Make** SMA America  
**Inverter Model** SB6000U (240V)  
**Inverter Count** 1  
**Derate Method** Using Components  
**Derate Factor** 0.791

**Layout Configuration** SinglePicture  
**Layout Point Count** 1

**Notes:** This is a 36-module, 6.48 kW system using an SMA 6000A inverter  
The Value Leader for Renewable Energy Products in NZ  
Report generated by SolarPathfinder Assistant Version 4.1.17.0. <http://www.solarpathfinder.com>  
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Layout Type            Single Picture  
Layout Point Count   1

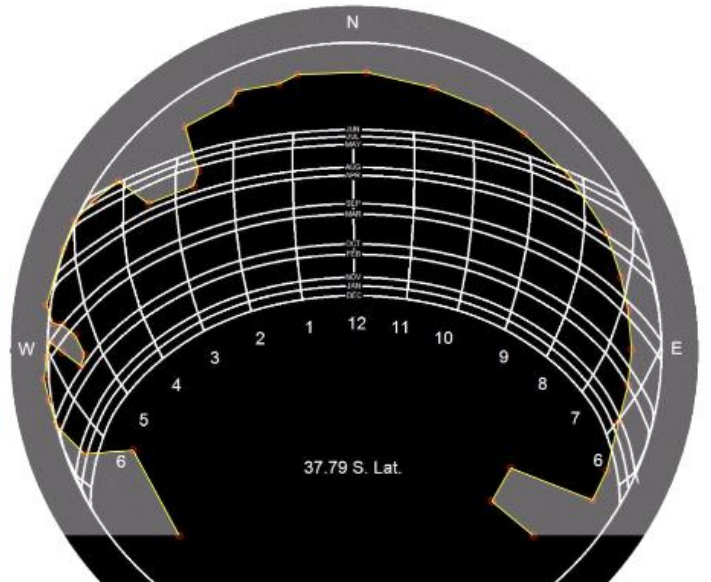
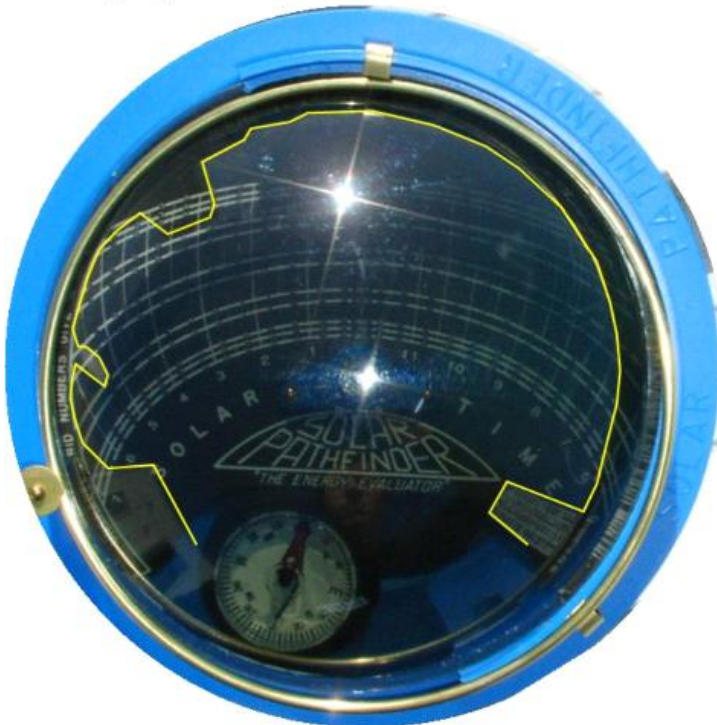


Image File LDS\_20090804b.jpg

**Solar Obstruction Data**

Month	Unshaded % of Ideal Site Azimuth=0 Tilt=-37.79	Actual Solar Rad w/ Shading Azimuth=1.7 Tilt=25.0 KWH/m <sup>2</sup> /day	Actual AC Energy (KWH) w/ shading Azimuth=1.70 Tilt=25.00	Actual AC Energy (KWH) w/o shading Azimuth=-1.7 Tilt=25.00	Ideal AC Energy (KWH) w/o shading Azimuth=0.0 Tilt=37.79	Solar Cost Savings \$0.25/KWH	PVWatts Unshaded % Actual Site Azimuth=1.7 Tilt=25.00	Actual Site Efficiency % Azimuth=1.7 Tilt=25.00	Ideal Site Efficiency % Azimuth=0.0 Tilt=37.79
January	99.29%	6.61	978.13	979.00	914.00	\$244.53	99.31 %	100.00 %	99.36 %
February	99.54%	5.79	780.00	780.00	752.00	\$195.00	99.47 %	100.00 %	99.51 %
March	99.09%	5.27	789.78	794.00	799.00	\$197.45	99.03 %	98.29 %	99.05 %
April	99.29%	4.25	626.49	628.00	660.00	\$156.62	99.38 %	94.32 %	99.26 %
May	89.25%	2.80	424.74	474.00	511.00	\$106.19	89.35 %	82.74 %	89.40 %
June	85.68%	2.42	366.74	423.00	470.00	\$91.69	84.97 %	76.63 %	84.66 %
July	87.65%	2.60	402.83	460.00	507.00	\$100.71	87.29 %	79.30 %	87.23 %
August	99.46%	3.47	539.00	539.00	572.00	\$134.75	99.60 %	94.19 %	99.73 %
September	99.33%	4.73	719.51	720.00	735.00	\$179.88	99.35 %	97.30 %	99.35 %
October	99.47%	5.11	779.08	780.00	762.00	\$194.77	99.45 %	100.00 %	99.64 %
November	99.49%	5.79	862.00	862.00	812.00	\$215.50	99.49 %	100.00 %	99.57 %
December	99.03%	6.09	925.33	926.00	857.00	\$231.33	99.07 %	100.00 %	99.03 %
<b>Totals</b>	<b>96.38%</b>	<b>54.93</b>	<b>8,193.64</b>	<b>8,365.00</b>	<b>8,351.00</b>	<b>\$2,048.41</b>	<b>96.31 %</b>	<b>93.57 %</b>	<b>96.32 %</b>
	<b>Unweighted Yearly Avg</b>	<b>Effect: 97.54%</b>					<b>Unweighted Yearly Avg</b>	<b>Unweighted Yearly Avg</b>	<b>Unweighted Yearly Avg</b>
		<b>Sun Hrs: 4.58</b>							

Notes: [None]



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