

Renewable Energy Credit Report by Quarter for David Sweetman

	Q1-09	Q2-09	Q3-09	Q4-09	Total
	1/1-4/1	4/1-7/1	7/1-10/1	10/1-1/1	2009
Electrical					
PV AC Power (kWh) Trackers	3267.1	4358.7	4427.9	2825.9	14879.6
PV AC Power (kWh) Fixed	1272.2	1288.5	1394.6	1286.5	5241.7
Total PV AC Power	4539.3	5647.2	5822.5	4112.4	20121.3
Wind DC Power (kWh)	874.6	180.7	1.5	516.9	1573.7
Total AC Power (KWh) Produced	5343.9	5813.4	5823.9	4587.9	21569.1
Solar Thermal (kWh)					
System 1 (DHW, pool)	2161.1	1792.1	1726.0	1796.4	7475.6
System 2 (radiant floor)	1264.4	968.5	498.4	1387.3	4118.6
System 3 (train room)	1305.6	1299.7	1508.3	957.1	5070.7
System 4 (craft room)	1433.3	1411.0	1749.9	1509.7	6103.9
Total Solar Thermal (kWh)	6164.4	5471.3	5482.6	5650.5	22768.8
Total Renewable Reported (kWh)	11578.3	11299.2	11306.6	10279.8	44463.8
VEA (AC kWh)					
Total Bought	10746.0	3332.0	5179.0	9744.0	29001.0
Total Sold	1114.0	2700.0	1374.0	1294.0	6482.0
Total Consumed	14975.9	7650.8	9696.1	13318.2	45641.0

1Q Avg/M	2Q Avg/M	3Q Avg/M	4Q Avg/M
1089.0	1452.9	1476.0	942.0
424.1	429.5	464.9	428.8
1513.1	1882.4	1940.8	1370.8
291.5	60.2	0.5	172.3
1781.3	1937.8	1941.3	1529.3
720.4	597.4	575.3	598.8
421.5	322.8	166.1	462.4
435.2	433.2	502.8	319.0
477.8	470.3	583.3	503.2
2054.8	1823.8	1827.5	1883.5
3859.4	3766.4	3768.9	3426.6
3582.0	1110.7	1726.3	3248.0
371.3	900.0	458.0	431.3
4992.0	2550.3	3232.0	4439.4

Note: Total produced (in AC kWh) is less than sum of PV (in AC kWh) + Wind (in DC kWh)

Note: Production less than predicted in 1Q because 1 string of PV modules (~ 500 W) not producing.

Note: Adding capacitors to the grid input and separate wires to the battery bank reducing charge controller problems.

Note: 2Q Wind generator down, Sheared bolts

Note: 3Q wind generator down, replaced all fixed PV modules

Note: 4Q partial outage on trackers (batteries & inverter), found evacuated tubes defective