



44 The Willows  
High Bottom  
BN22 5AA  
Lower Down  
Sussex

Dear, John Smith

## **RE Example Photovoltaic Existing House**

Further to our telephone conversation please find outlined below the details of our proposal for the installation of a photovoltaic panel. As discussed during our recent site visit I am confirming the installation cost and an estimate of the payback period from the government feed in tariff. The tables below shows the details of each of the proposed systems together with the energy calculation which has been calculated using the BRE approved SAP calculation method 2009.

### **System list**

Option 1 - REW xxx Classic UM 72 (xxx=250-300W)

£12,000.00 excluding VAT

£12,600.00 Including VAT @ 5.00%

REW Solartechnik GmbH, Dusseldorf, Germany. REW xxx Classic UM 72  
(xxx=250-300W)

Option 2 - Yingli YL200P-29b/2 Polycrystalline

£18,000.00 excluding VAT

£18,900.00 Including VAT @ 5.00%

Yingli Energy (China) Company Limited YL200P-29b/2 Polycrystalline

### **Results List**

Option 1 - REW xxx Classic UM 72 (xxx=250-300W)

Total generation	1855.04kWh/ year
FIT revenue	£701
Cost of Electricity	£1,855
Export revenue	£5,565
Cumulative Benefit	£6,489

Option 2 - Yingli YL200P-29b/2 Polycrystalline

Total generation	3372.8kWh/ year
FIT revenue	£1,275
Cost of Electricity	£3,373
Export revenue	£10,118
Cumulative Benefit	£11,798

## Results Table

### Option 1 - REW xxx Classic UM 72 (xxx=250-300W)

kWh	FIT	FIT £	Cost £	Saving £	Export £	Annual £	Total £
1,855	37.8	£701.21	12.0	£111.30	£27.83	£840.33	£840.33
1,846	38.9	£718.63	12.3	£114.64	£28.66	£861.93	£1,702.27
1,837	40.1	£736.49	12.6	£118.08	£29.52	£884.09	£2,586.35
1,827	41.3	£754.79	12.9	£121.62	£30.41	£906.82	£3,493.17
1,818	42.5	£773.55	13.2	£125.27	£31.32	£930.14	£4,423.31
1,809	43.8	£792.77	13.6	£129.03	£32.26	£954.06	£5,377.37
1,800	45.1	£812.47	13.9	£132.90	£33.23	£978.60	£6,355.96
1,791	46.5	£832.66	14.3	£136.89	£34.22	£1,003.77	£7,359.73
1,782	47.9	£853.35	14.6	£140.99	£35.25	£1,029.59	£8,389.32
1,773	49.3	£874.56	15.0	£145.22	£36.31	£1,056.09	£9,445.41
1,764	50.8	£896.29	15.4	£149.58	£37.40	£1,083.27	£10,528.68
1,756	52.3	£918.56	15.7	£154.07	£38.52	£1,111.15	£11,639.82
1,747	53.9	£941.39	16.1	£158.69	£39.67	£1,139.75	£12,779.57
1,738	55.5	£964.78	16.5	£163.45	£40.86	£1,169.10	£13,948.67
1,729	57.2	£988.76	17.0	£168.35	£42.09	£1,199.20	£15,147.87
1,721	58.9	£1,013.33	17.4	£173.41	£43.35	£1,230.08	£16,377.95
1,712	60.7	£1,038.51	17.8	£178.61	£44.65	£1,261.77	£17,639.72
1,704	62.5	£1,064.32	18.3	£183.97	£45.99	£1,294.27	£18,934.00
1,695	64.4	£1,090.76	18.7	£189.48	£47.37	£1,327.62	£20,261.61
1,687	66.3	£1,117.87	19.2	£195.17	£48.79	£1,361.83	£21,623.45
1,678	68.3	£1,145.65	19.7	£201.02	£50.26	£1,396.93	£23,020.37
1,670	70.3	£1,174.12	20.2	£207.06	£51.76	£1,432.94	£24,453.31
1,661	72.4	£1,203.29	20.7	£213.27	£53.32	£1,469.88	£25,923.19
1,653	74.6	£1,233.20	21.2	£219.66	£54.92	£1,507.78	£27,430.97
1,645	76.8	£1,263.84	21.7	£226.25	£56.56	£1,546.66	£28,977.62

TOTAL Benefit over 25 years £28,977.62

Return on investment writing off system after 25 years 130% equivalent to 05% pa

Cost of instalation including VAT £12,600.00

### Option 2 - Yingli YL200P-29b/2 Polycrystalline

kWh	FIT	FIT £	Cost £	Saving £	Export £	Annual £	Total £
3,373	37.8	£1,274.92	12.0	£202.37	£50.59	£1,527.88	£1,527.88
3,356	38.9	£1,306.60	12.3	£208.44	£52.11	£1,567.15	£3,095.03
3,339	40.1	£1,339.07	12.6	£214.69	£53.67	£1,607.43	£4,702.46
3,322	41.3	£1,372.35	12.9	£221.13	£55.28	£1,648.76	£6,351.22
3,306	42.5	£1,406.45	13.2	£227.77	£56.94	£1,691.16	£8,042.38
3,289	43.8	£1,441.40	13.6	£234.60	£58.65	£1,734.65	£9,777.03
3,273	45.1	£1,477.22	13.9	£241.64	£60.41	£1,779.26	£11,556.29
3,257	46.5	£1,513.93	14.3	£248.89	£62.22	£1,825.03	£13,381.33
3,240	47.9	£1,551.55	14.6	£256.35	£64.09	£1,871.99	£15,253.31
3,224	49.3	£1,590.10	15.0	£264.04	£66.01	£1,920.16	£17,173.47
3,208	50.8	£1,629.62	15.4	£271.97	£67.99	£1,969.57	£19,143.05

BRe Quest Test, RM14 3QA, Romford, Essex

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3,192	52.3	£1,670.11	15.7	£280.12	£70.03	£2,020.27	£21,163.31
3,176	53.9	£1,711.61	16.1	£288.53	£72.13	£2,072.28	£23,235.59
3,160	55.5	£1,754.15	16.5	£297.18	£74.30	£2,125.63	£25,361.22
3,144	57.2	£1,797.74	17.0	£306.10	£76.52	£2,180.36	£27,541.58
3,129	58.9	£1,842.41	17.4	£315.28	£78.82	£2,236.52	£29,778.10
3,113	60.7	£1,888.20	17.8	£324.74	£81.19	£2,294.12	£32,072.22
3,097	62.5	£1,935.12	18.3	£334.48	£83.62	£2,353.22	£34,425.45
3,082	64.4	£1,983.21	18.7	£344.52	£86.13	£2,413.85	£36,839.30
3,066	66.3	£2,032.49	19.2	£354.85	£88.71	£2,476.06	£39,315.36
3,051	68.3	£2,083.00	19.7	£365.50	£91.37	£2,539.87	£41,855.23
3,036	70.3	£2,134.76	20.2	£376.46	£94.12	£2,605.34	£44,460.56
3,021	72.4	£2,187.81	20.7	£387.76	£96.94	£2,672.51	£47,133.07
3,006	74.6	£2,242.17	21.2	£399.39	£99.85	£2,741.41	£49,874.48
2,991	76.8	£2,297.89	21.7	£411.37	£102.84	£2,812.11	£52,686.59

TOTAL Benefit over 25 years      £52,686.59

Return on investment writing off system after 25 years      179% equivalent to 07% pa

Cost of instalation including VAT      £18,900.00

### **Disclaimer**

The performance of solar PV systems is impossible to predict with certainty due to the variability in the amount of solar radiation (sunlight) from location to location and from year to year. This estimate is based upon the Government's standard assessment procedure for energy rating of buildings (SAP) and is given as guidance only. It should not be considered as a guarantee of performance.

Yours Sincerley

Paul Dennis