PV Investment Analyser

PARAMETERS

PROJECT

| Site name | Example 250 kwp | | | | | |
|---------------------|-----------------|--|--|--|--|--|
| Location | | | | | | |
| EPC band D or above | Yes | | | | | |

SYSTEM

| Modules | |
|----------------------------------|--|
| Inverter | |
| Total Installed Capacity [kW] | |
| Space required [m ²] | |

TBC ______

230,000

0.0 %

0.0 %

0.70 %

0.1 %

25

PERFORMANCE

Estimated generation [kWh/year] Simulation software adjustment

Power adjustment (tolerance, LID etc.) Annual PV modules degradation Annual BOS degradation Life time [years]

COSTS

| Total system cost |
|-----------------------------------|
| Export meter |
| Initial system value depreciation |
| Annual O&M costs |

| 25 |
|---------------------------------------|
| |
| |
| |
| · · · · · · · · · · · · · · · · · · · |
| £250,000 |
| |
| £400 |
| 400.0/ |
| 100 % |
| |

Replacements/repairs (eg. inverter)

| | | 31/05/2013 |
|----------------------------|---------|-------------------------|
| FIT SCHEME | | |
| Generation tariff | 0.11 | £/kWh |
| Export tariff | 0.05 | £/kWh |
| Scheme duration | 20 | years |
| Index-linked | Yes | |
| EPC band D required | Yes | |
| CONSUMPTION / EXPORT | | |
| Auto consumption rate | 100 % | |
| Export to the grid | 50 % | |
| | 🔘 meter | |
| GRID ELECTRICITY | | |
| Cost of electricty | 0.10 | £/kWh |
| Electricity inflation | 9 % | |
| Grid carbon factor | 0.527 | kg CO ₂ /kWh |
| FINANCIAL PARAMETERS | | |
| Inflation index | 3.4 % | |
| Bank account interest rate | 1.0 % | |
| | | |
| CREDIT | - | |
| | | |
| | | |
| | | |

| /ear | PV degr | BOS degr | PV generat. | FiT (gen) | FiT (exp) | FiT revenue | Electr cost | Electr savings | FiT + savings | O&M costs | Credit | Cost of capital | Cash flow | Cum cash flow | PV inv value | Simple ROI |
|------|---------|-------------|----------------|--------------|--------------|----------------|----------------|-------------------|---------------|-----------|--------|--------------------|-----------|------------------|--------------|---------------|
| | [%] | [%] | [kWh/year] | [£/kWh] | [£/kWh] | [£] | [£/kWh] | [£] | [£] | [£] | [£] | [£] | [£] | [£] | [£] | [%] |
| 0 | | | | | | | | | | | £0 | | -£250,400 | -£250,400 | £0 | |
| 1 | 100.0% | 100.0% | 230,000 | £0.11 | £0.05 | £24,541 | £0.10 | £23,000 | £47,541 | £0 | £0 | £0 | £47,541 | -£202,859 | £47,541 | -81% |
| 2 | 99.3% | 99.9% | 228,162 | £0.11 | £0.05 | £25,173 | £0.11 | £24,870 | £50,042 | £0 | £0 | £0 | £50,042 | -£152,817 | £98,059 | -61% |
| 3 | 98.6% | 99.8% | 226,338 | £0.11 | £0.05 | £25,820 | £0.12 | £26,891 | £52,712 | £0 | £0 | £0 | £52,712 | -£100,105 | £151,751 | -40% |
| 4 | 97.9% | 99.7% | 224,529 | £0.12 | £0.05 | £26,485 | £0.13 | £29,077 | £55,562 | £0 | £0 | £0 | £55,562 | -£44,543 | £208,830 | -18% |
| 5 | 97.2% | 99.6% | 222,734 | £0.12 | £0.05 | £27,166 | £0.14 | £31,441 | £58,607 | £0 | £0 | £0 | £58,607 | £14,064 | £269,526 | 6% |
| 6 | 96.5% | 99.5% | 220,954 | £0.13 | £0.05 | £27,866 | £0.15 | £33,996 | £61,862 | £0 | £0 | £0 | £61,862 | £75,926 | £334,083 | 30% |
| 7 | 95.9% | 99.4% | 219,188 | £0.13 | £0.05 | £28,583 | £0.17 | £36,760 | £65,343 | £0 | £0 | £0 | £65,343 | £141,269 | £402,767 | 56% |
| 8 | 95.2% | 99.3% | 217,436 | £0.13 | £0.06 | £29,318 | £0.18 | £39,748 | £69,066 | £0 | £0 | £0 | £69,066 | £210,335 | £475,861 | 84% |
| 9 | 94.5% | 99.2% | 215,698 | £0.14 | £0.06 | £30,073 | £0.20 | £42,979 | £73,052 | £0 | £0 | £0 | £73,052 | £283,387 | £553,671 | 113% |
| 10 | 93.9% | 99.1% | 213,974 | £0.14 | £0.06 | £30,847 | £0.22 | £46,473 | £77,320 | £0 | £0 | £0 | £77,320 | £360,707 | £636,528 | 144% |
| 11 | 93.2% | 99.0% | 212,263 | £0.15 | £0.06 | £31,641 | £0.24 | £50,250 | £81,891 | £0 | £0 | £0 | £81,891 | £442,598 | £724,784 | 177% |
| 12 | 92.6% | 98.9% | 210,567 | £0.15 | £0.07 | £32,455 | £0.26 | £54,335 | £86,790 | £0 | £0 | £0 | £86,790 | £529,388 | £818,822 | 211% |
| 13 | 91.9% | 98.8% | 208,884 | £0.16 | £0.07 | £33,290 | £0.28 | £58,752 | £92,042 | £0 | £0 | £0 | £92,042 | £621,430 | £919,052 | 248% |
| 14 | 91.3% | 98.7% | 207,214 | £0.16 | £0.07 | £34,147 | £0.31 | £63,528 | £97,675 | £0 | £0 | £0 | £97,675 | £719,105 | £1,025,918 | 287% |
| 15 | 90.6% | 98.6% | 205,558 | £0.17 | £0.07 | £35,026 | £0.33 | £68,692 | £103,717 | £0 | £0 | £0 | £103,717 | £822,822 | £1,139,894 | 329% |
| 16 | 90.0% | 98.5% | 203,915 | £0.18 | £0.07 | £35,927 | £0.36 | £74,276 | £110,203 | £0 | £0 | £0 | £110,203 | £933,025 | £1,261,496 | 373% |
| 17 | 89.4% | 98.4% | 202,285 | £0.18 | £0.08 | £36,852 | £0.40 | £80,313 | £117,165 | £0 | £0 | £0 | £117,165 | £1,050,190 | £1,391,276 | 419% |
| 18 | 88.7% | 98.3% | 200,668 | £0.19 | £0.08 | £37,800 | £0.43 | £86,842 | £124,642 | £0 | £0 | £0 | £124,642 | £1,174,832 | £1,529,830 | 469% |
| 19 | 88.1% | 98.2% | 199,064 | £0.19 | £0.08 | £38,773 | £0.47 | £93,901 | £132,674 | £0 | £0 | £0 | £132,674 | £1,307,506 | £1,677,802 | 522% |
| 20 | 87.5% | 98.1% | 197,473 | £0.20 | £0.08 | £39,771 | £0.51 | £101,534 | £141,305 | £0 | £0 | £0 | £141,305 | £1,448,810 | £1,835,885 | 579% |
| 21 | 86.9% | 98.0% | 195,895 | £0.00 | £0.00 | £0 | £0.56 | £109,787 | £109,787 | £0 | £0 | £0 | £109,787 | £1,558,598 | £1,964,031 | 622% |
| 22 | 86.3% | 97.9% | 194,329 | £0.00 | £0.00 | £0 | £0.61 | £118,712 | £118,712 | £0 | £0 | £0 | £118,712 | £1,677,309 | £2,102,383 | 670% |
| 23 | 85.7% | 97.8% | 192,776 | £0.00 | £0.00 | £0 | £0.67 | £128,362 | £128,362 | £0 | £0 | £0 | £128,362 | £1,805,671 | £2,251,769 | 721% |
| 24 | 85.1% | 97.7% | 191,235 | £0.00 | £0.00 | £0 | £0.73 | £138,796 | £138,796 | £0 | £0 | £0 | £138,796 | £1,944,467 | £2,413,082 | 777% |
| 25 | 84.5% | 97.6% | 189,706 | £0.00 | £0.00 | £0 | £0.79 | £150,078 | £150,078 | £0 | £0 | £0 | £150,078 | £2,094,545 | £2,587,291 | 836% |
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RESULTS

