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
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£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%

RESULTS

