

PV Investment Analyser

PARAMETERS

31/05/2013

PROJECT

Site name	Example 50 kwp
Location	
EPC band D or above	Yes

SYSTEM

Modules	TBC
Inverter	
Total Installed Capacity [kW]	50
Space required [m ²]	

PERFORMANCE

Estimated generation [kWh/year]	45,000
Simulation software adjustment	0.0 %
Power adjustment (tolerance, LID etc.)	0.0 %
Annual PV modules degradation	0.70 %
Annual BOS degradation	0.1 %
Life time [years]	25

COSTS

Total system cost	£65,000
Export meter	£400
Initial system value depreciation	100 %
Annual O&M costs	
Replacements/repairs (eg. inverter)	-

FIT SCHEME

Generation tariff	0.13	£/kWh
Export tariff	0.05	£/kWh
Scheme duration	20	years
Index-linked	Yes	
EPC band D required	Yes	

CONSUMPTION / EXPORT

Auto consumption rate	<input type="text" value="100 %"/>
Export to the grid	<input type="radio"/> 50 % <input checked="" type="radio"/> meter

GRID ELECTRICITY

Cost of electricity	<input type="text" value="0.10"/>	£/kWh
Electricity inflation	<input type="text" value="9 %"/>	
Grid carbon factor	<input type="text" value="0.527"/>	kg CO ₂ /kWh

FINANCIAL PARAMETERS

Inflation index	<input type="text" value="3.4 %"/>
Bank account interest rate	<input type="text" value="1.0 %"/>

CREDIT

Cost of capital	<input type="text" value="4.0 %"/>
Deposit	<input type="text" value="10.0 %"/>
Repayment period	<input type="text" value="10"/> years
Type of credit repayment	<input checked="" type="radio"/> Uniform credit repayment <input type="radio"/> Uniform annual payment <input type="radio"/> Interest only

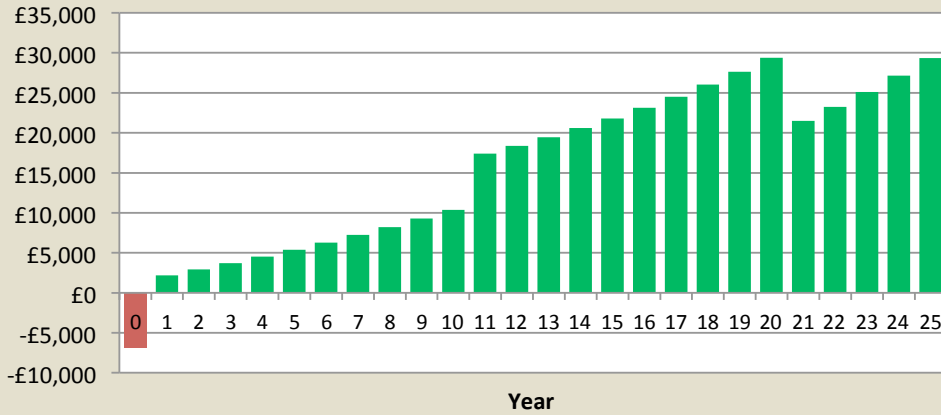
RESULTS

PBT	2.5	years
ARR	25.4 %	
IRR	54.4 %	
AERR	18.2 %	

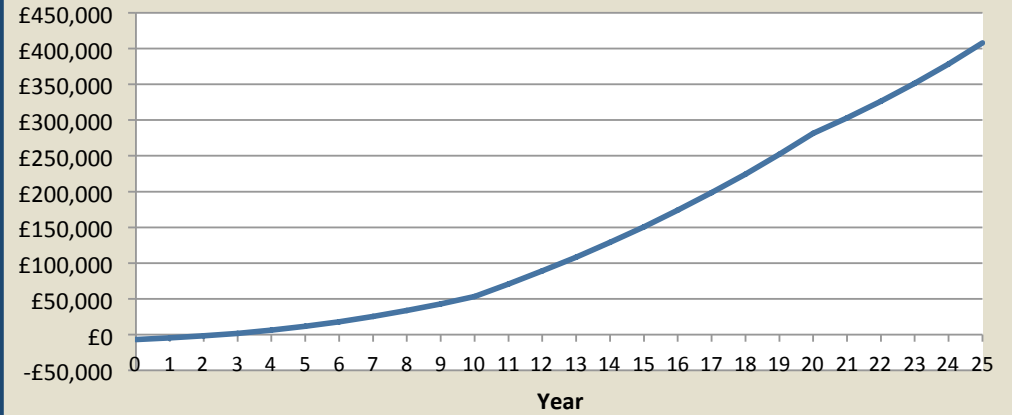
Future Value	£ 450,648
Overall ROI	6431%
Net B/C ratio	50.9

Avg generation	40937	kWh/year
Total generation	1023	MWh
Total CO ₂ savings	539	tonnes

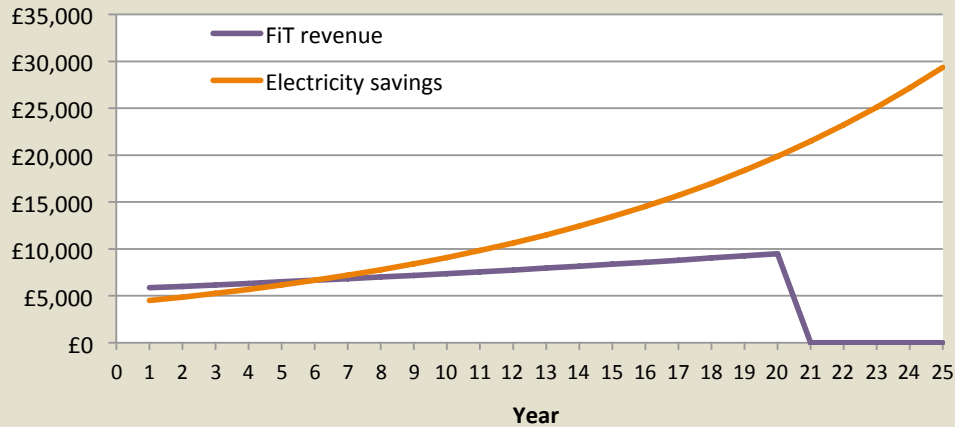
Cash flows



Cumulative cash flow



Revenue cash flows



PV investment value

