

## Customer Quotation

**Customer:** Mr & Mrs Smith  
**Address:** 123 Solar Street, Sunnyville, SN1 2AB

### System Specification

Solar Panel Capacity:	4.0 kWp
Battery Storage:	5.0 kWh
Location:	South England
Roof Orientation:	Ideal (South)
Expected Annual Generation:	4,555 kWh
Capacity Factor:	13.0%

### Your Energy Profile

Heating Type:	Gas/Oil boiler
Base Electricity Usage:	3,500 kWh/year
Total Household Consumption:	3,500 kWh/year
EV Daily Mileage:	30 miles
EV Charging (Home):	2,628 kWh/year
Total Demand (incl. EV):	6,128 kWh/year

### Investment

Solar PV System:	£6,000
Battery Storage:	£4,000
Total System Cost:	£10,000

### Payment Option

Payment Method:	Finance
Deposit:	£2,500 (25%)
Loan Amount:	£7,500
Loan Term:	10 years

<b>Interest Rate:</b>	5.0% APR
<b>Monthly Payment:</b>	£81
<b>Annual Payment:</b>	£971
<b>Total Interest:</b>	£2,213
<b>Total Cost of Finance:</b>	£9,713

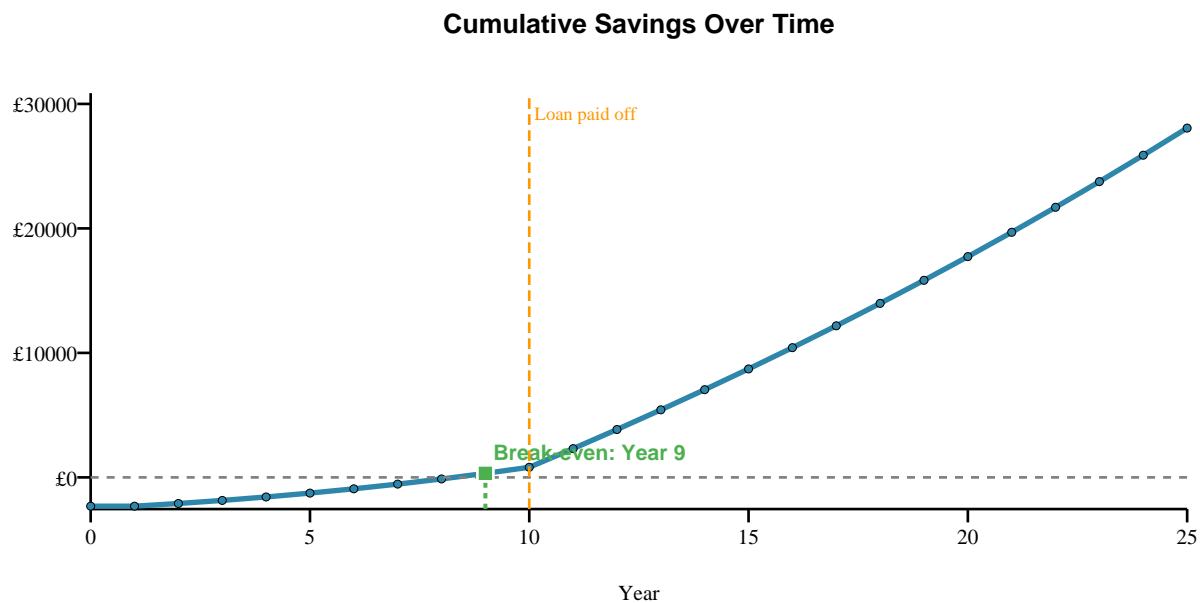
### Projected Savings

<b>Year 1 Savings:</b>	£1,129
<b>Year 1 Export Income:</b>	£169
<b>Payback Period:</b>	9 years
<b>NPV (25 years @ 3.0%):</b>	£16,155
<b>Cumulative Benefit (Year 10):</b>	£812
<b>Cumulative Benefit (Year 15):</b>	£8,711
<b>Cumulative Benefit (Year 25):</b>	£28,059

### EV Charging Benefits

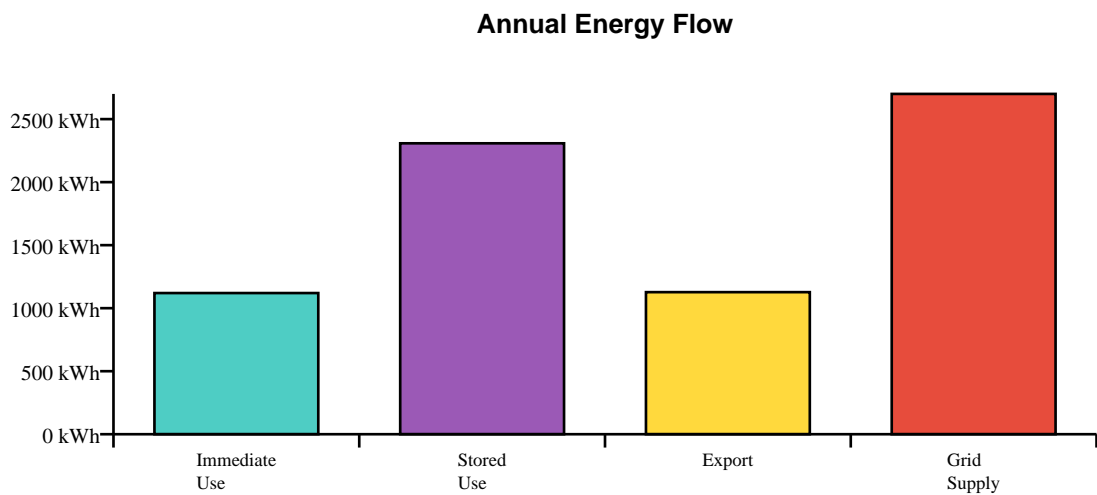
<b>EV Charging from Solar/Battery:</b>	483 kWh (18%)
<b>EV Charging from Grid:</b>	2,145 kWh
<b>Annual EV Fuel Saving:</b>	£135

## Financial Projections



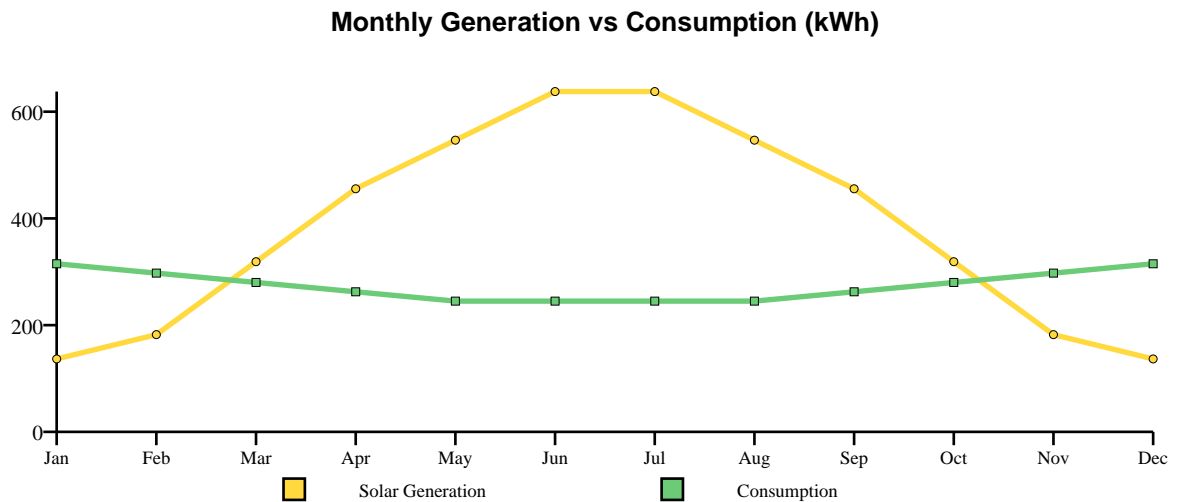
**Break-even Analysis:** Your system pays for itself in **Year 9**. After this point, all savings go directly into your pocket. Over 25 years, your total benefit is projected to be **£28,059**.

## Energy Distribution



**Self-Consumption:** 75% of your solar generation is used on-site (1,120 kWh immediate + 2,308 kWh from battery storage). The battery significantly increases your self-consumption, reducing grid dependency.

## Seasonal Performance



**Seasonal Note:** Solar generation peaks in summer (May-August) when it can exceed your consumption. The surplus is either stored in your battery or exported for income. Winter generation is lower but still contributes to your energy needs.

## Assumptions & Notes

This quotation is based on the following assumptions:

- Electricity price: 28p/kWh with 3.0% annual increase
- Export tariff (SEG): 15p/kWh
- Daytime usage: 40% of consumption during daylight hours
- Analysis period: 25 years

Actual savings will depend on your usage patterns, weather conditions, and future energy prices. This quotation is valid for 30 days from the date shown above.