

## Customer Quotation

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

### System Specification

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

### Your Energy Profile

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

### Investment

<b>Solar PV System:</b>	£6,000
<b>Battery Storage:</b>	£4,000
<b>Total System Cost:</b>	<b>£10,000</b>

### Payment Option

<b>Payment Method:</b>	Finance
<b>Deposit:</b>	£2,500 (25%)
<b>Loan Amount:</b>	£7,500
<b>Loan Term:</b>	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

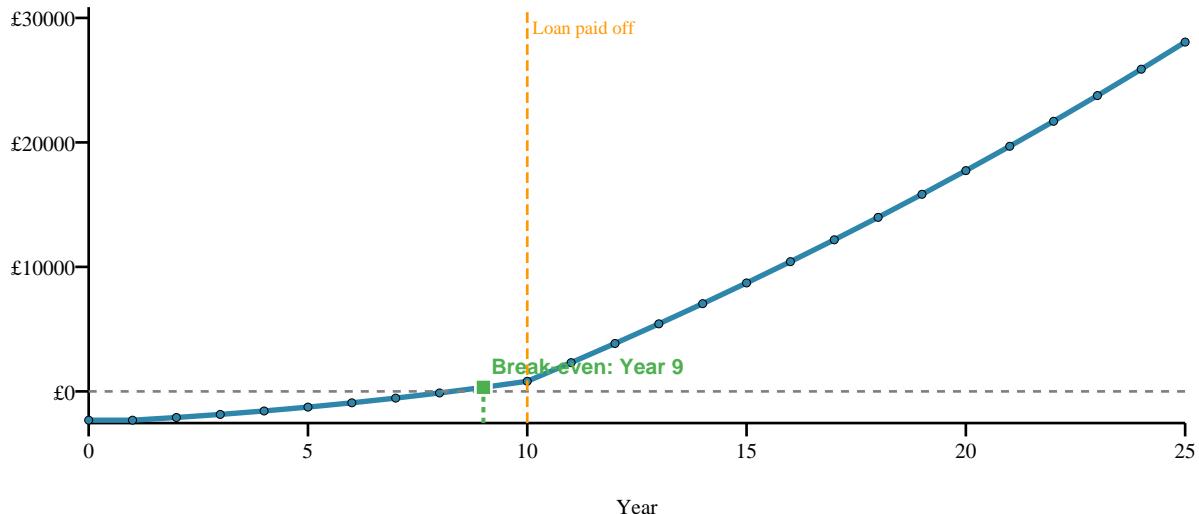
<b>Year 1 Savings:</b>	£1,129
<b>Year 1 Export Income:</b>	£169
<b>Payback Period:</b>	9 years
<b>NPV (25 years @ 3.0%):</b>	£16,155
<b>Cumulative Benefit (Year 10):</b>	£812
<b>Cumulative Benefit (Year 15):</b>	£8,711
<b>Cumulative Benefit (Year 25):</b>	£28,059

## 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

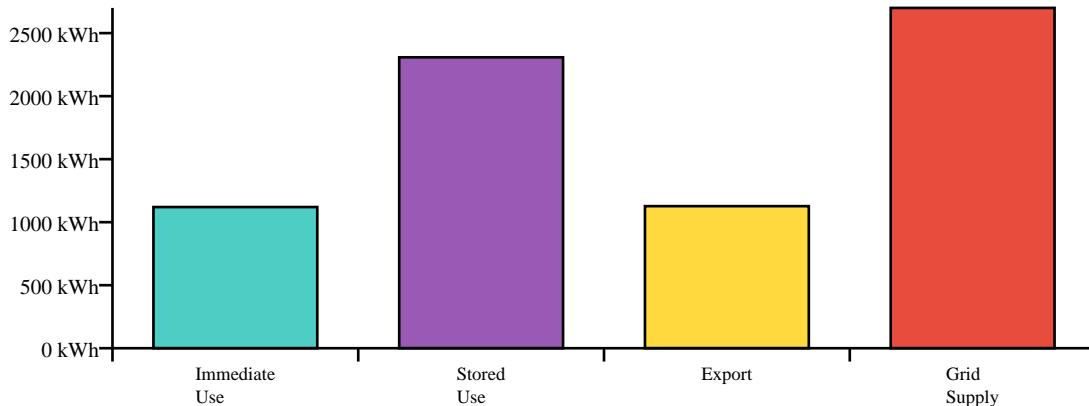
Cumulative Savings Over Time



**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**.

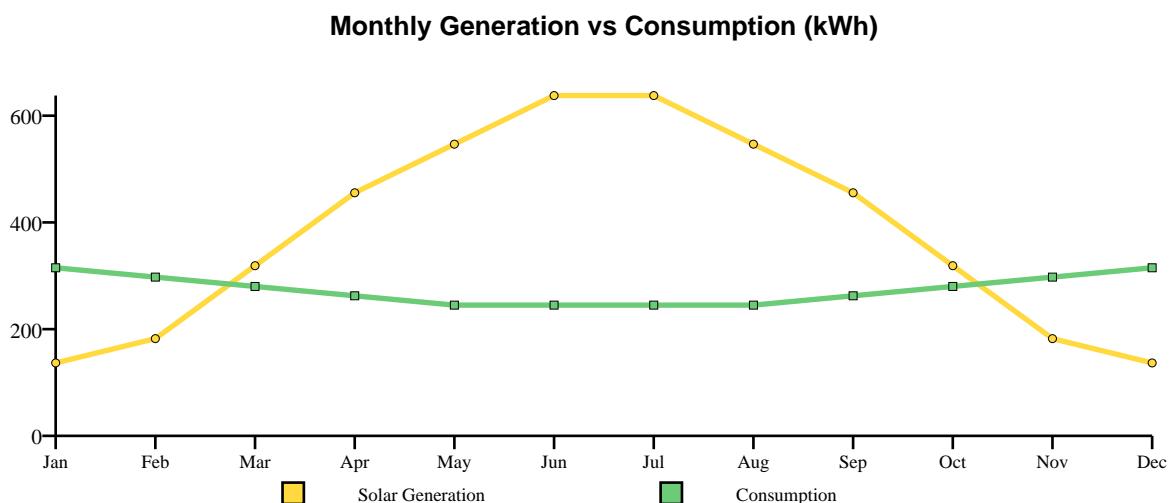
## Energy Distribution

Annual Energy Flow



**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.