SolarTech Solutions

Quote Ref: Q-20251202-130709
Date: 02 December 2025

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

Interest Rate:	5.0% APR
Monthly Payment:	£81
Annual Payment:	£971
Total Interest:	£2,213
Total Cost of Finance:	£12,213

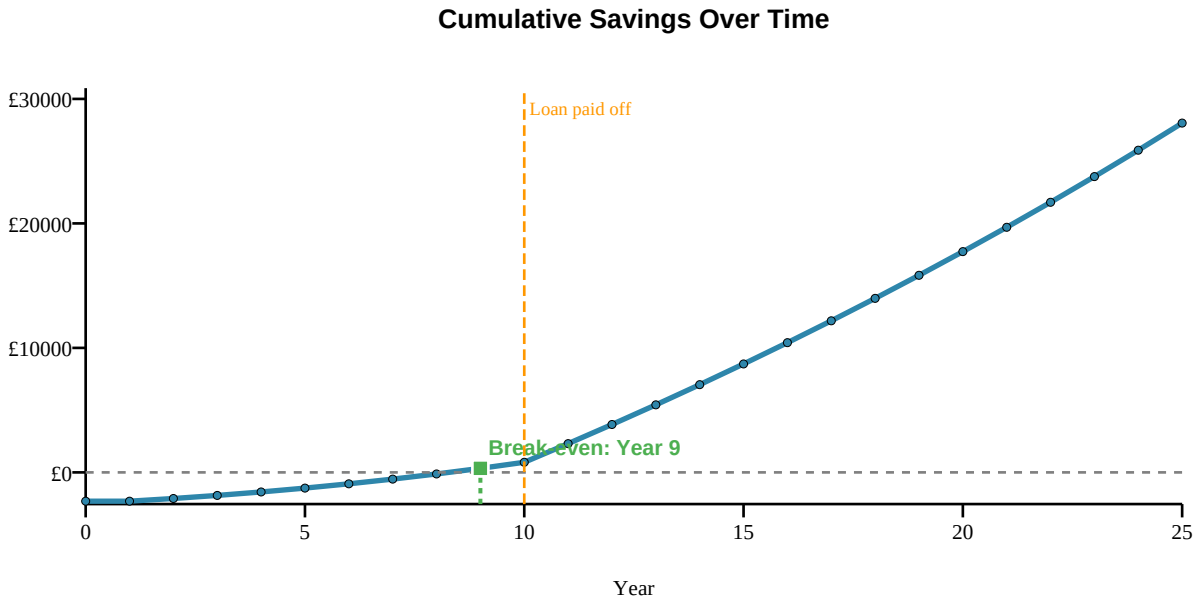
Projected Savings

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

EV Charging Benefits

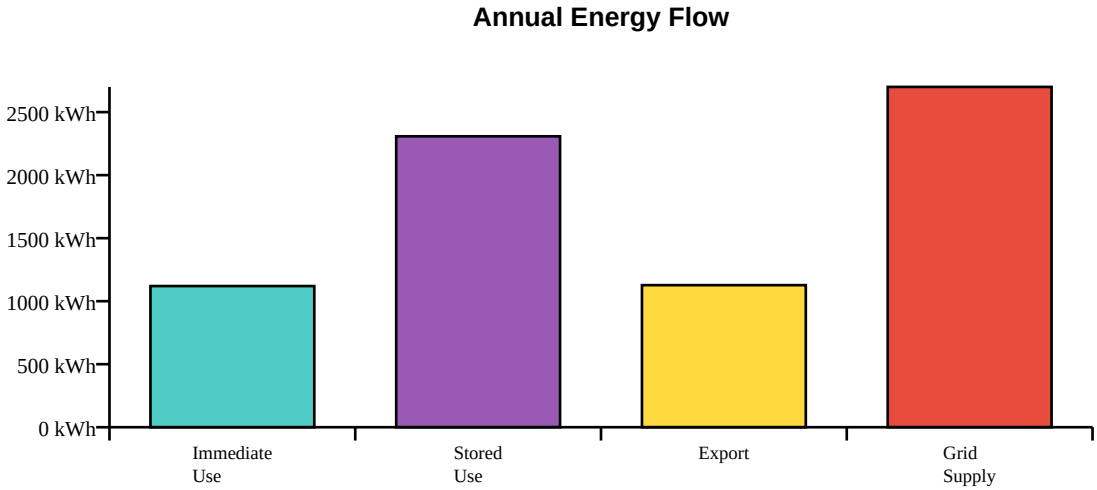
EV Charging from Solar/Battery:	483 kWh (18%)
EV Charging from Grid:	2,145 kWh
Annual EV Fuel Saving:	£135

Financial Projections



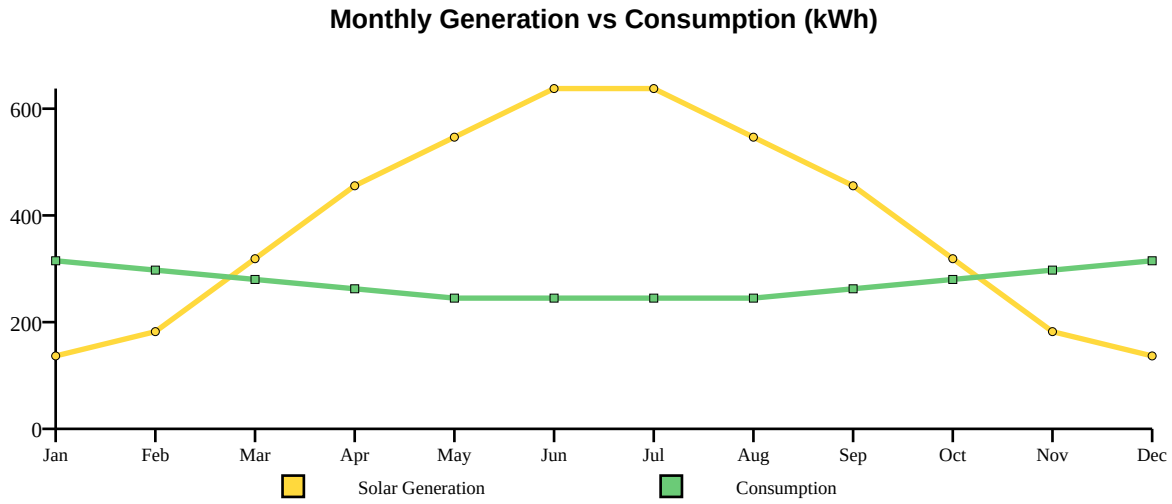
Break-even Analysis: Your system pays for itself in **Year 9**. After this point, all savings go directly into your pocket. Over 25 years, your total benefit is projected to be **£28,059**.

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.