



Solar Energy System Proposal



#### Our Story:

Based in Hampshire and covering the South of England, we offer solar panels, battery storage, EV charging points & electric heating solutions for the domestic, commercial and industrial sectors. When you choose EE Renewables, you know that you're choosing an experienced and qualified team of installers with more than 30 years experience in the electrical trade and over 10 years experience as Solar Installers.

Having installed over 2,500 systems, we are delighted to be partnering with Solar Together and look forward to helping even more people go green and save money.



### Recommended System Option

7.8 kW System Size

# 7,090 kWh

Estimated Annual Solar Generation

10%

Total Return on Investment





## Your Solution

### JAM54S31 AB Half-Cell

7.800kW of Solar Power
20 x JAM54S31-390/MR
390 Watt panels
12 Year Product Warranty & 25 Year
Linear Performance Warranty
7,090kWh per year



Inverter Growatt New Energy Technology Co., Ltd. 3.600 kW Total Inverter Rating 1 x MIN 3600TL-X









Battery PylonTech 3.552 kWh Total Battery Storage 1 x US3000C

Warranties: 12 Year Panel Product Warranty, 25 Year Panel Performance Warranty, 5 Year Inverter Product Warranty



### System Performance



System Performance Assumptions: System Total losses: 0%, Inverter losses: 0%, Optimizer losses: 0%, Shading losses: 0%, Performance Adjustment: 0%, Output Calculator: MCS. Panel Orientations: 10 panels with Azimuth 216 and Slope 20, 10 panels with Azimuth 218 and Slope 20.

The performance of solar PV systems is impossible to predict with certainty due to the variability in the amount of solar radiation (sunlight) from location to location and from year to year. This estimate is based upon the standard MCS procedure is given as guidance only. It should not be considered as a guarantee of performance.

#### A. Installation data

Installed capacity of PV system - kWp (stc)	7.80	kWp
Orientation of the PV system - degrees from South	Group 1: 10 panels with Orientation: 35 ° Group 2: 10 panels with Orientation: 40 °	o
Inclination of system - degrees from South	Group 1: 10 panels with Tilt: 20° Group 2: 10 panels with Tilt: 20°	o
Postcode region	SP5 3AD	
B. Performance calculations		
kWh/kWp (Kk) from table	Group 1: 912 Group 2: 906	kWh/kWp
Shade Factor (SF)	1.00	

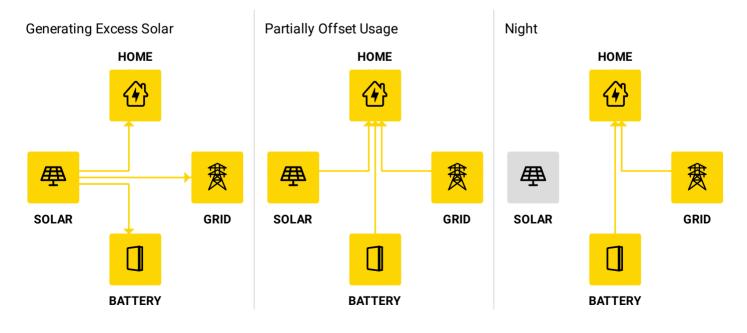


### **EE**Renewables

### Proposal for Steve Milton

Estimated annual output (kWp x Kk x SF)	7,090	kWh		
C. Estimated PV self-consumption - PV Only				
Assumed occupancy archetype	In Half Day			
Assumed annual electricity consumption, kWh	1,800.00	kWh		
Assumed annual electricity generation from solar PV system, kWh	7,090	kWh		
Expected solar PV self-consumption (PV Only)	819.56	kWh		
Grid electricity independence / Self-sufficiency (PV Only)	45.53	%		
D. Estimated PV self-consumption - with EESS				
Assumed usable capacity of electricity energy storage device, which is used for self-consumption, kWh	3.37	kWh		
Expected solar PV self-consumption (with EESS)	1,795.47	kWh		
Grid electricity independence / Self-sufficiency (with EESS)	100.0%	%		

# How your system works





## Quotation

### Payment Option: Cash

20 x JAM54S31-390/MR 390 Watt Panels (JA Solar) 1 x RHI-3.6K-48ES-5G, 1 x MIN 3600TL-X (Growatt New Energy Technology Co., Ltd./SOLIS - Ningbo Ginlong Technologies) 1 x US3000C (PylonTech) Tilt Racks (20 panels)				
Standard System Price	£14,338.80 Including £2,389.80 VAT			
Tigo Optimizer VAT	£240.00			
DNO Application VAT	£600.00			
NORTH Additional invertor cost Growatt VAT	£1,500.00 Including £250.00 VAT			
SOUTH PylonTech Small Battery 3.3kWh VAT	£4,498.80 Including £749.80 VAT			
Ground Mounting Tubs VAT	£480.00			
Total System Price	£21,657.60 Including £3,389.60 VAT			
Purchase Price	£21,657.60 Including £3,389.60 VAT			

Price excludes a Smart Meter should wish to install a Smart Meter then please call your energy provider. This proposal is valid until 23rd September 2022.



### **Electricity Bill Savings**



### First Year Monthly Bill Savings

Lifetime Bill Savings

Month	Solar Generation (kWh)	Electricity Consumption before solar (kWh)	Electricity Imported after solar (kWh)	Electricity Exported after solar (kWh)	Export Credit (£)	Utility Bill before solar (£)	Utility Bill after solar (£)	Estimated Savings (£)
Jan	241	180	28	78	4	64	18	46
Feb	339	176	23	176	9	63	11	52
Mar	570	174	1	385	19	63	-5	68
Apr	748	148	0	592	30	55	-16	71
May	921	132	0	783	39	51	-25	76
Jun	951	126	0	821	41	49	-27	76
Jul	955	122	0	829	41	48	-28	76
Aug	835	119	0	710	36	47	-22	69
Sep	625	131	0	487	24	50	-11	61
Oct	438	146	0	282	14	55	-0	55
Nov	264	167	20	107	5	60	14	46
Dec	203	180	31	44	2	64	20	44

Rate not specified specified, using Average Residential Rate based on location.

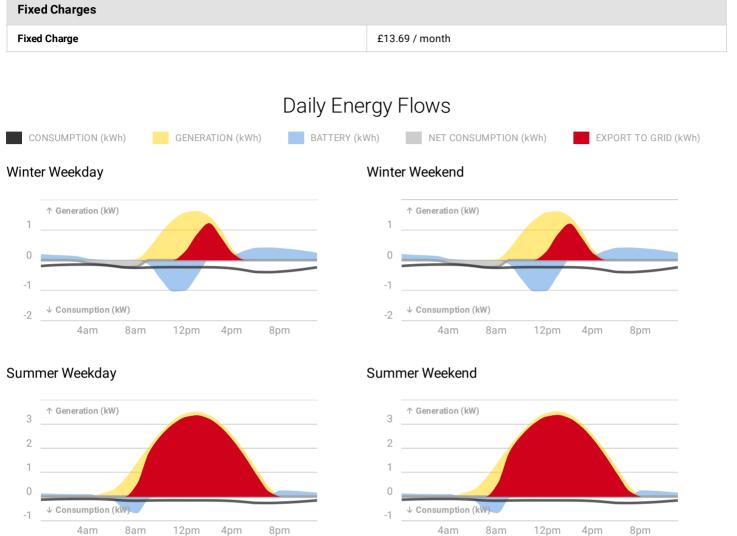
Your projected energy cost is calculated by considering a 7% increase in energy cost each year, due to trends in the raising cost of energy. This estimate is based on your selected preferences, current energy costs and the position and orientation of your roof to calculate the efficiency of the system. Projections are based on estimated usage of 1800 kWh per year, assuming Average Residential Rate Electricity Tariff.

Your electricity tariff rates may change as a result of installing the system. You should contact your electricity retailer for further information.

Proposed Tariff Details - London Average Residential Rate			
Energy Charges (£/kWh)			
Usage Charge	Tier 1 (> 0 kWh): £0.28		
Feed-in Tariff (£/kWh)			
Smart Export Guarantee (SEG)	Tier 1 (> 0 kWh): £0.05		



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# Environmental Benefits

Solar has no emissions. It just silently generates pure, clean energy.



Each Year			Over System Lifetime	
394% of c0 <sub>2</sub> , s0 <sub>x</sub> & N0 <sub>x</sub> Avo	2 tons ided CO₂ per year	52,921 Car km avoided	340 Trees planted	38 Long haul flights avoided