



Renewable Energy
Solutions

SAS ENERGY

YOUR FUTURE, YOUR ENERGY



WHO WE ARE

We are a small team that
can deliver big!

- Established since 2009
- Design, supply and installation
- Private and Public Sector
- Installing Solar PV Nationwide
- Delivering perfection
- Highly trusted & Professional



WHAT WE DO

We deliver an unrivalled level of quality in every solution

SAS Energy spearheads a range of solutions and services aimed at driving down energy demand from the national grid by introducing low-carbon solutions through renewables.



Commercial Rooftop PV

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Carport Solar PV

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Ground Mount Solar PV

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Service & Maintenance

[FIND OUT MORE](#)



Design & CDM

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High Voltage (HV)

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Battery Storage

[FIND OUT MORE](#)



EV Charging

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IMPLEMENTATION OF RENEWABLES AND THEIR ADVANTAGES

- Secure energy source
- Lower energy costs
- Independence from grid price increase
- Added value to your asset
- Enhance green credentials
- Reduction in CO2 emissions



*Please note that we cannot predict the weather and so these numbers are conservative assumptions based on many years worth of weather data collected near the proposed site using industry leading design software. In addition we have made assumptions on energy price inflation and RPI rates shown below.

Yr.	Yield	Electricity Savings	Export Income	Total Benefit	O&M costs (£)	Total Benefit	Cumulative Profit	Cash Position	ROI
						-£88,390		-£88,390	
1	88,961	£27,075	£0	£27,075	-£1,364	£25,711	£25,711	-£62,679	30.63%
2	88,695	£29,154	£0	£29,154	-£1,473	£27,680	£53,392	-£34,998	32.98%
3	88,428	£31,391	£0	£31,391	-£1,591	£29,800	£83,192	-£5,198	35.51%
4	88,163	£33,801	£0	£33,801	-£1,718	£32,083	£115,275	£26,885	38.24%
5	87,899	£36,396	£0	£36,396	-£1,856	£34,540	£149,815	£61,425	41.18%
6	87,635	£39,189	£0	£39,189	-£2,004	£37,185	£187,000	£98,610	44.34%
7	87,372	£42,198	£0	£42,198	-£2,165	£40,033	£227,033	£138,643	47.74%
8	87,110	£45,437	£0	£45,437	-£2,338	£43,099	£270,132	£181,742	51.40%
9	86,849	£48,924	£0	£48,924	-£2,525	£46,400	£316,531	£228,141	55.35%
10	86,588	£52,680	£0	£52,680	-£2,727	£49,953	£366,484	£278,094	59.60%
11	86,328	£56,724	£0	£56,724	-£2,945	£53,779	£420,263	£331,873	64.17%
12	86,069	£61,078	£0	£61,078	-£3,181	£57,897	£478,160	£389,770	69.10%
13	85,811	£65,766	£0	£65,766	-£3,435	£62,331	£540,491	£452,101	74.40%
14	85,554	£70,814	£0	£70,814	-£3,710	£67,104	£607,595	£519,205	80.12%
15	85,297	£76,250	£0	£76,250	-£4,007	£72,243	£679,838	£591,448	86.27%
16	85,041	£82,103	£0	£82,103	-£4,327	£77,776	£757,614	£669,224	92.89%
17	84,786	£88,405	£0	£88,405	-£4,673	£83,732	£841,345	£752,956	100.02%
18	84,532	£95,191	£0	£95,191	-£5,047	£90,144	£931,489	£843,099	107.69%
19	84,278	£102,498	£0	£102,498	-£5,451	£97,047	£1,028,536	£940,146	115.96%
20	84,025	£110,366	£0	£110,366	-£5,887	£104,478	£1,133,014	£1,044,625	124.86%
21	83,773	£118,837	£0	£118,837	-£6,358	£112,479	£1,245,494	£1,157,104	134.45%
22	83,522	£127,959	£0	£127,959	-£6,867	£121,092	£1,366,586	£1,278,196	144.77%
23	83,271	£137,781	£0	£137,781	-£7,416	£130,365	£1,496,951	£1,408,562	155.88%
24	83,021	£148,357	£0	£148,357	-£8,009	£140,348	£1,637,300	£1,548,910	167.84%
25	82,772	£159,745	£0	£159,745	-£8,650	£151,095	£1,788,395	£1,700,005	180.73%

2,145,781

IRR	37%	
NPV	10%	£368,434
Levelised cost of electricity		£0.0094

Inputs			
0% Consumed Solar PV Energy %	88%	Size of System (kW)	91
0% Exported / Deemed Exported Solar PV energy %	0%	Yield (kWh)	88,961
System Cost	£88,390	Yr 1 Energy Price (£)	0.3450
Yield Degradation	0.30%	Energy Price inflation (%)	8.00%
		Export Inflation	2.50%

Capital Investment

RETURN ON INVESTMENT

CAVENDISH SCHOOL

- System Size – 50kWp
- Panel Model – 152 JA Solar PV Modules
- Inverter Model – 2 Fronius Inverters
- 16,170 kg of CO2 emissions avoided a year

SAS Energy partnered up with OVESCO and delivered a few fantastic projects as a part of community-owned solar PV solutions across Sussex.

The main objective of this project was to help schools:

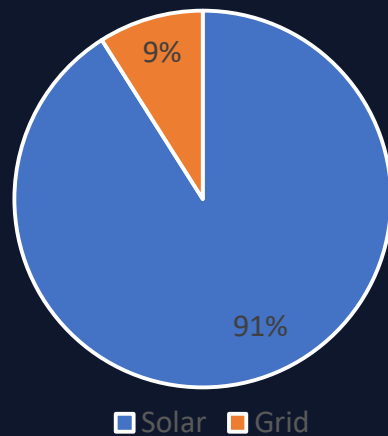
- Save money on energy costs
- Reduce school's CO2 emissions
- Provide tools for education



CAVENDISH SCHOOL

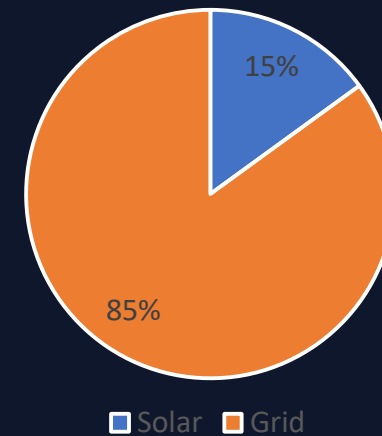
Throughout the academic year, the solar PV installation generated a total of 47,951 kWh of green, sustainable energy.

Solar PV power generated and consumed on-site



The school consumed 91% of the energy generated through the solar PV system on-site, with the rest being exported and sold to the grid.

Total power consumed on-site



The entire solar power generated by the installation covered 15% of the total consumption on-site.

UNIVERSITY OF SUSSEX

- System size – 864 kWp across 29 buildings
- Panel Model – 3,144 Trina Solar PV Modules PV
- Inverter Model – SolarEdge Inverters
- Estimated Annual CO2 Savings p.a. – 324 tonnes
- Annual Solar Yield – 844, 410 kWh

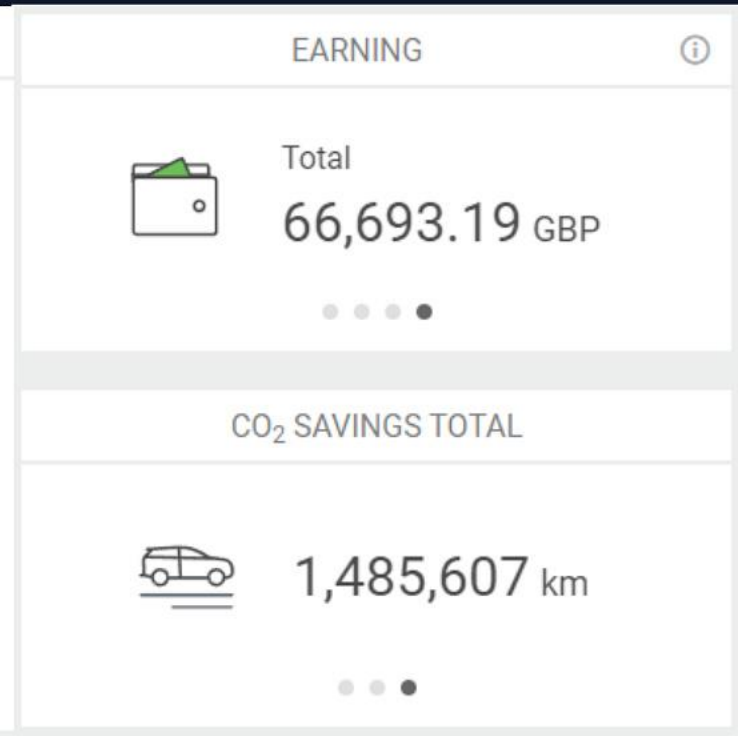
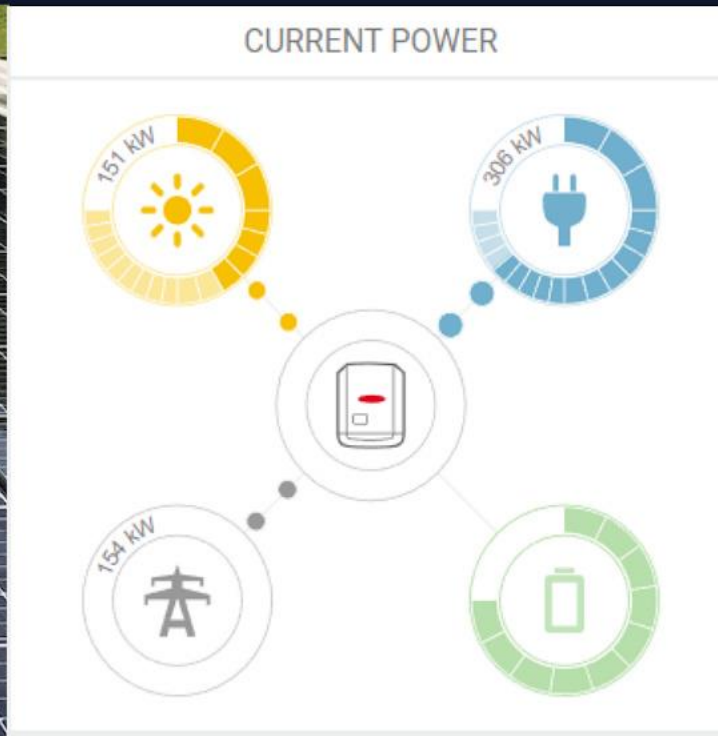
SAS ENERGY worked in partnership with the University of Sussex, Sussex Estates and Facilities to prepare the business case, design and install the largest roof-top solar PV solution in UK's Higher Education Sector at the time.



OPERATIONS AND MAINTENANCE

Do the best for your business by protecting your investment

- Planned Preventative Maintenance
- Remedial/Reactive Servicing
- Module Cleaning
- Offsite Monitoring
- Warranty Cover



THANK YOU
FOR YOUR
ATTENTION

