



East Sussex County Council - Solar PV Upgrade

Overview

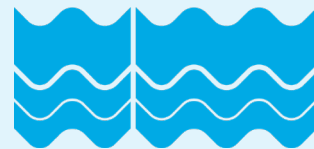
East Sussex County Council appointed Frankham to undertake the RIBA Stage 1-4 design of six Solar PV sites in Phase 1. Once designed, we acted in a Contract Administrator role for RIBA Stages 5-7 of the projects. For the Phase 2 projects onwards, we were responsible for reviewing Contractor designs, pricing assessments in RIBA Stages 2-4 and undertaking the Contractor Administrator role for RIBA Stages 5-7 of the projects.

The aim of these projects is to install Solar PV Systems at a mixture of commercial, education and government buildings across the ESCC property portfolio. Subsequently, there will be a reduction in the energy consumption of these buildings, helping East Sussex County Council to achieve their carbon reduction targets.

Project Partners



East Sussex County Council



Value:

£111,000 (Frankham fee)- to date
£913,000 - overall contract value

Services:

Electrical (Building Services)
**Contract Administration/
Management**

Start and End Dates:

May 2021 - ongoing



Project Sites

Phase 1 *completed*

- East Sussex County Council – County Hall (Local Government Building)
- Hookstead Resource Centre (Local Government Building)
- Herstmonceux School (Education)
- Milton Grange (Residential Care Home/Daycentre)
- Lansdowne Secure Children’s Unit (Education/Residential Care Home)
- Sackville House (Local Government Building)

Phase 2 *completed*

- Bellbrook (Daycentre)
- Hailsham East Children’s Centre (Local Government Building/Daycentre)
- Hampden Park Library (Local Government Building)
- Hollington Library (Local Government Building)
- Silverlands Centre (Daycentre)

Phase 3

- The Keep (Local Government Building) – *completed*
- The Phoenix Centre (Daycentre) – *completed*
- Polegate Library (Local Government Building)

Challenges Successfully Overcome

Site constraints

All sites were to remain operational for the duration of the works. Some of the sites are buildings used for the care and teaching of at-risk children/adults, and some are schools where children are being taught on a daily basis. To manage this we adopted the following approach:

- Areas were clearly demarked to prevent unauthorised access to the work area and works were planned on a rolling basis with the site management team.
- Constant communication with the site management teams was maintained to ensure day-to-day running of the buildings was not interrupted.
- Works within schools were typically conducted during school holiday periods or outside of school operational hours.



Challenges Successfully Overcome *cont.*

Public Sector Decarbonisation Scheme Funding

All Phase 1 sites had to fully comply with the requirements of the Public Sector Decarbonisation Scheme, run by the Department for Energy Security and Net Zero and delivered by Salix Finance.

Constant reviews and communication with the Salix delivery and carbon and technical teams was maintained at all stages during Phase 1 to ensure that their specific requirements were met. This was managed by Frankham for an installation/onsite perspective and by the client, East Sussex County Council, from a financial one.

Our approach and ongoing attention to this aspect of the projects resulted in funding being granted.

Planning Permissions

All sites had to obtain planning permissions from the local planning authority. However, some of the sites were subject to more stringent reviews due to the possibility of the sites impacting the visual appeal of the South Downs National Park.

Designs were submitted ahead of schedule so that adequate time was available for re-designs. They were triple checked to ensure they met with the relevant standards of the local planning authority. As a result, the local planning authority had no grounds to reject the design proposals.

Meetings with outside authorities including South Downs National Park were held to facilitate open forum discussion.

"Phase 1 PSDS Grant for 6 Solar PV Projects has been successfully completed and has met all requirements of the audit. I would like to personally thank you for your input to the technical audit which will have made a valuable contribution to this positive outcome."

Janette Ackroyd
Property Climate Change Lead
East Sussex County Council



Key Project Outcomes

- The projects were completed to a high level of workmanship which has resulted in a rolling programme of further Solar PV sites.
- The Frankham Team supported the client to achieve all required aspects of the Government funding.

Key Project Outcomes *cont.*

- The individual sites are benefiting from a reduction in their energy usage which is helping to reduce the carbon output of the building and subsequently, East Sussex County Council's overall carbon footprint. The table below evidences the savings, for each site, in terms of kWh, £ and tonnes of CO₂. Please note that some of this data is extrapolated.

Phase	Site	System Online	kWh saving	£ Saving (23/24 unit rate)	Annual Carbon Saving (tCO ₂ e) (2023 factor)
1	Milton Grange	Feb 22	42,250	£17,197	3.6
1	Hookstead	Feb 22	22,681	£9,231	1.9
1	County Hall	Mar 22	41,610	£16,936	3.5
1	Sackville House	Apr 22	56,168	£22,861	4.7
1	Lansdowne Centre	Jun 22	43,295	£17,622	3.6
1	Herstmonceux School	May 22	12,477	£5,078	1.1
2	Bellbrook Centre	Dec 22	13,260	£5,397	1.1
2	Hailsham East Children's Centre	Jan 23	28,160	£11,462	2.4
2	Hampden Park Library	Dec 22	6,440	£2,621	0.5
2	Hollington Library	Dec 22	4,260	£1,734	0.4
2	Silverlands Centre	Feb 23	20,740	£8,442	1.7
3	The Keep	May 23	112,590	£45,826	9.5
			403,931	£164,408	34.0

