

# Design Access Statement

Site name: County Hall

Address: St Annes Crescent, LEWES BN7 1UE



Date: 27<sup>th</sup> May 2021

## 1. Introduction

The installation of solar PV arrays and battery storage at this site is in line with East Sussex County Council's commitment to a target of net-zero carbon emissions by 2050 or earlier. Renewable energy will be a key mechanism to achieve this goal and to improve the whole-life costs of our buildings. This project supports the achievement of our 13% year on year carbon reduction target as stated in our Climate Emergency plan: [Climate change – what we are doing – East Sussex County Council](#)

## 2. Site Use

General office

## 3. Building Description

A large, 8-storey office block including lower ground floor. Flat roofs. Age of construction: 1960s.

Site area = 42,019 m<sup>2</sup>

Building Ground Floor area = 3,571 m<sup>2</sup>

Number of parking spaces = c. 170

## 4. Design & Scale

	No. of Panels	Total Panel Area (m2)	Array Size (kWp)
Location 1	88	150.48	29.92
Location 2	82	140.22	27.88
Total	170	290.7	57.8

The proposed solar system will be installed using a flat roof mounting system on the flat roof of South Block and some of the flat roofs of Centre Block. On South Block, the panels will likely be installed portrait at an angle of 30°, so we expect the ultimate height of the top edge of the panels to be around 580mm from the surface of the roof. On Centre Block the panels will likely be installed landscape at an angle of 10°, so we expect the ultimate height of the top edge of the panels to be around 250mm from the surface of the roof.

The dimensions of each panel are 1,686mm x 1,016mm x 40 mm

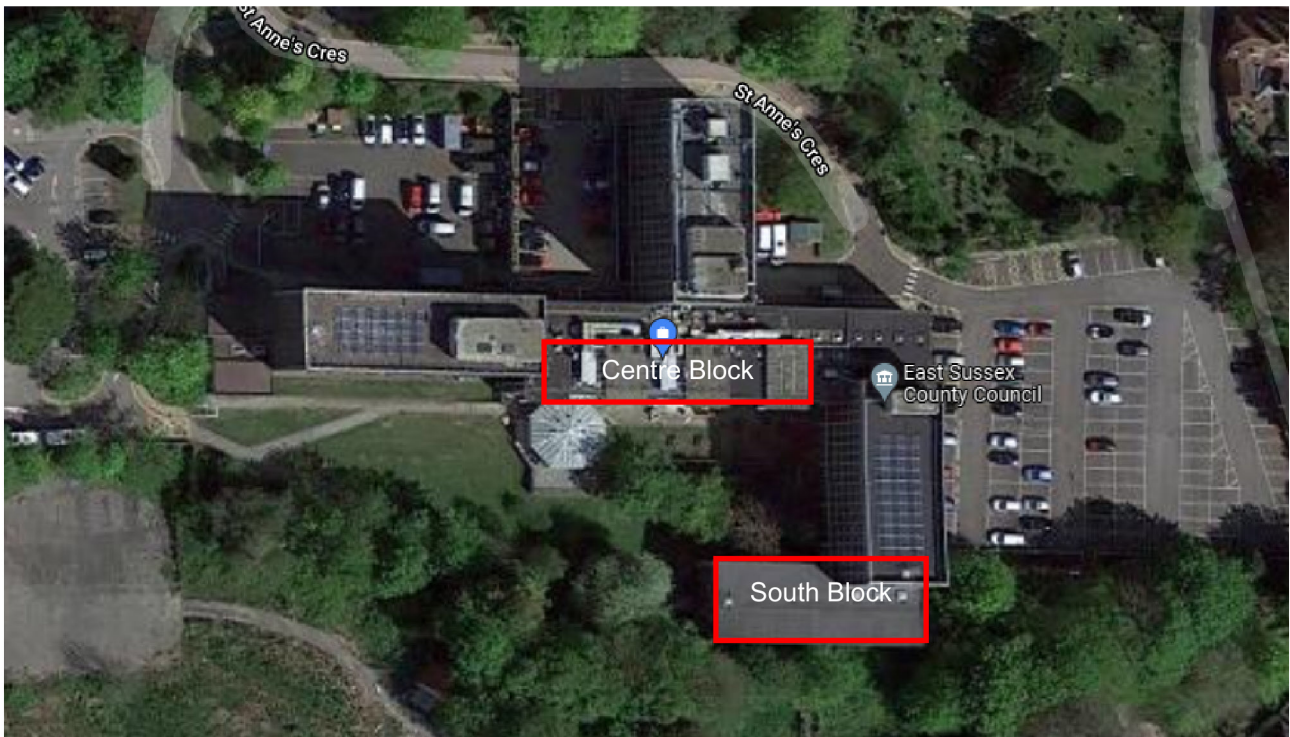
## 5. Existing Solar PV System

There are already two solar PV systems installed at County Hall on the roofs of West Block (48 panels) and East Block (66 panels). These are visible in the satellite image below.

- West Block = 48 x 260W panels = 12.48kWp
- East Block = 66 x 260W panels = 17.16kWp
- Total = 114 x 260W panels = 29.64kWp

## 6. Layout

Approximate work areas marked in satellite image below. Please see attached roof plan for approximate panel layout. Final design may be subject to minor changes.



## 7. Appearance

Monocrystalline panels have been selected for their higher efficiency and power output but also because their appearance is more subtle. The height of the building and the flat roof means that the panels will not be visible from ground level.

Attached is the technical specification sheet for the proposed panels.

## 8. Environmental Benefits

Energy and Carbon savings from the proposed scheme are:

Site	kWh savings	Annual Saving tCO2
County Hall South Block	33,306	8.5

## **9. Access**

The solar PV will be positioned on the roof and therefore will have no effect on vehicle movements or parking. The roof is not accessible by the public.

## **10. Conclusion**

The proposed design installation of the solar panels balances orientation to enable maximum renewable electricity generation and site carbon reduction, with meeting the requirements of the local planning authority by not presenting an intrusive feature within the landscape or impact on the amenity of the surrounding area.

The proposed development is in compliance with planning policy and will help meet carbon reduction targets.

In conclusion it is requested that the council look favourably on the application for the proposed installation solar panels

## About this document:

<p><b>Enquiries</b> East Sussex County Council Paul Hardman, Energy Efficiency Officer [REDACTED] Janette Ackroyd, Client Emergency Officer [REDACTED]</p>	<p><b>Version number:</b> 1.0 <b>Related information</b></p>
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