

## SOLARISE

Output O 4 SOLARISE implementation in housing

Output O 4.1 Delivery of 4 innovative solar pilots  
in housing in Brighton & Hove

Activity A 4.17 Installation

Deliverable D 4.17.1 Installation report

# Oxford Street Solar Energy Installation Report

## December 2021

Document prepared by Brighton & Hove City Council

Based on the SOLARISE Work Package 4 deliverables

## **Oxford Street, Brighton**

Oxford Street is a renovation project that is transforming an old office building into ten new temporary accommodation apartments for people on the Housing waiting list.

The 9.6kWp rooftop array is split into six individual, 1.2kWp arrays, each of which is wired directly into a consumer unit within six of the flats. This allows tenants to consume free electricity, for example for heating, when their system is generating.

The four flats that do not have the benefit of the solar PV electricity have been installed with Air Source Heat Pumps (ASHPs) which are also very energy efficient. The flats with PV will offset the less efficient electric heating, and the four flats without PV have the more efficient ASHPs. This makes it more equitable across the flats. It was not feasible for all flats to have PV, or for all of them to have ASHPs, due to limitations on where the equipment could be sited.

The residents are likely to be on low incomes and so this will be an important contribution to cutting their cost of living, particularly as electricity costs continue to rise. Residents will be informed about the solar electricity and advised how to make the best use of the electricity, for example running appliances during the daytime, to minimise the cost of their fuel bills.

On previous projects of this type the solar PV array would have been one unit feeding into the communal electricity supply, for communal spaces such as hallways and stairs, and residents would not have been able to directly access the 'free' electricity generated by the PV as is the case here.

It is anticipated that residents will move in by February 2022, therefore monitoring information of the solar installation will be available after one year of residence.

## **General information about the solar installation**

Country: UK

City: Brighton & Hove

Owner: Brighton & Hove City Council

Date of delivery: Spring 2022

Cost: £25,100

Power: 9.6kWp

Energy production/year: 9811kWh

Energy use: estimated that 60-80% of this will be consumed on site

Technology: 400W panels, string inverters

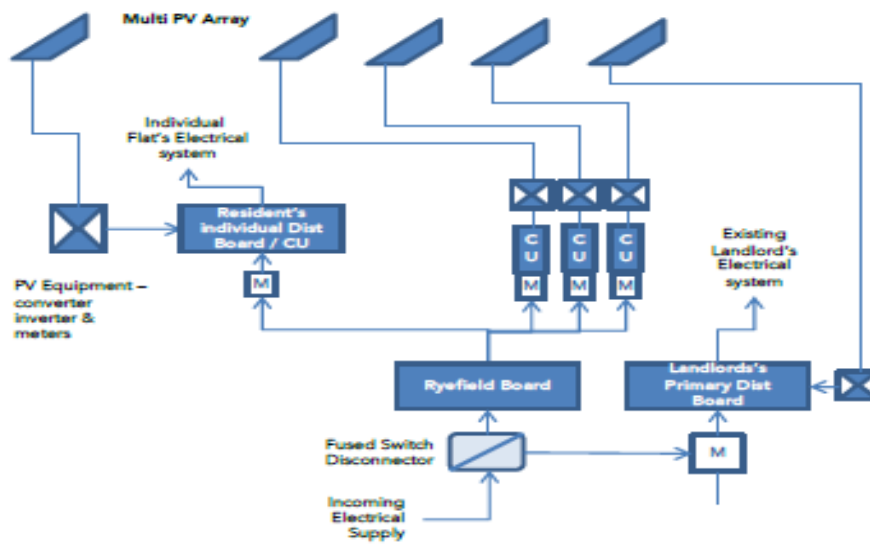
Organisations and companies involved: Ecolution (PV); Mears (building redevelopment)

Due to go live February 202

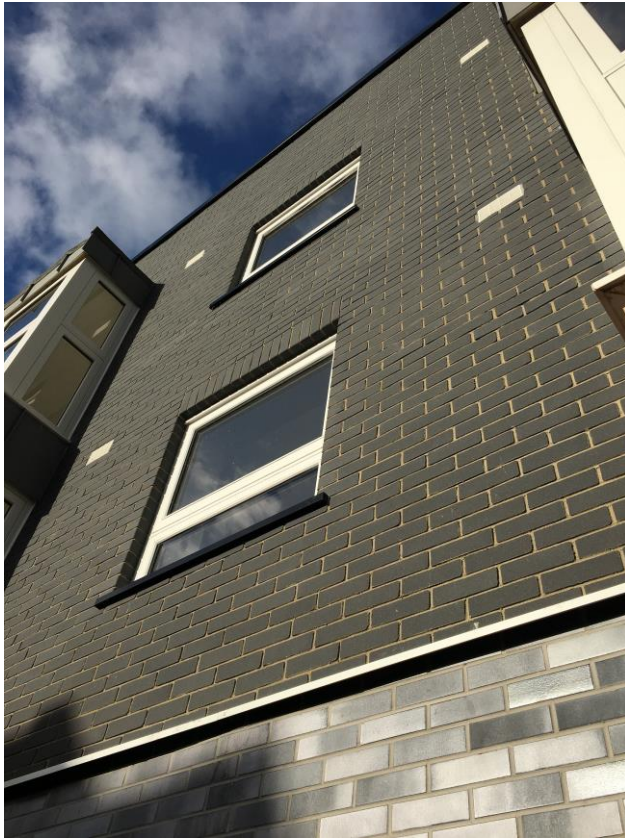
Funding Support: Interreg 2 Seas project SOLARISE



**Elevation of Oxford Street**



**General arrangement of Oxford Street solar installation**



Oxford Street during construction

