

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

Elwyn Jones Court Solar Energy Installation Report

December 2021

Document prepared by Brighton & Hove City Council

Based on the SOLARISE Work Package 4 deliverables

Elwyn Jones Court, Brighton

Elwyn Jones Court is a 75-unit seniors' accommodation scheme, owned by Brighton & Hove City Council. It is currently heated by night storage heaters run from the landlord's electricity supply. The existing storage heaters are due to be replaced with a Ground Source Heat Pump (GSHP), which will significantly lower the electricity demand onsite, but will also flatten the electricity demand curve.

The flattening of the electricity demand curves allow for greater self-consumption of solar PV electricity. Two large solar arrays were installed in 2021 to serve the buildings, maximising the self-consumption of solar PV on-site and enabling a renewable heating solution to be driven by renewable electricity.

This accommodation is for older people and so it is important for the heating to be available throughout the day and for much of the year. Demand for hot water is also higher than usual. The cost of heating affects residents' service charges, so affordability is crucial. The solar-generated energy means that the residents, most of whom are on fixed incomes, will be partially protected from the steep rises in electricity prices seen in late 2021 onwards.

There were some delays in the installation work due to the Covid pandemic, which was particularly of concern in this building where older residents, who could be vulnerable to infection, remained in residence throughout the works. The installation was completed in August 2020 but due to issues with the meters, was not generating electricity until May 2021. The GSHPs are not yet installed, but the solar PV energy is used for the storage heaters and other on-site uses.

General information about the solar installation

Date of delivery: August 2020

Date of commencement of system : May 2021

Power: two systems totalling 55.6kWp capacity

Energy production/year installed capacity: 56,381kWh

Energy use: feasibility study estimated that 60% of this will be consumed on site

Technology: 400W panels, string inverters Maxis 3 – 390W monocrystalline

Organisations and companies involved:

Feasibility Study : Ricardo

Electrical works and solar PV installation : Ecolution Energy Tech

Owner : Brighton & Hove City Council

Funding Support: Interreg 2 Seas project SOLARISE



Elwyn Jones Court arrangement of solar installation

