

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

Buckley Close Solar Energy Installation Report

December 2021

Document prepared by Brighton & Hove City Council

Based on the SOLARISE Work Package 4 deliverables

Buckley Close, Brighton

This small new build affordable housing project of Brighton & Hove City Council (BHCC), incorporates solar PV and a private wire network through which the Council supplies electricity to its tenants via private sub metering. Each tenant benefits from use of electricity generated by the solar PV, with the net import requirement for the block as a whole met from the grid. The approach recently received support from energy regulator Ofgem via a 'Sandbox' derogation award for delivery partner Emergent Energy Systems Ltd. intended to support wider adoption.

Information about the solar installation

Date of delivery: May 2020

Power: 28kWp

Technology: LG Monocrystalline 355W panels, SolarEdge inverters

Organisations and companies involved:

Brighton & Hove City Council (client);

Emergent Energy Systems Ltd (smart electricity system designer and operator)

AJTaylor Electrical Contractors Ltd. (electrical works and solar PV installation)

Morgan Sindall (main contractor)

Funding Support: Interreg 2 Seas project SOLARISE

General Description of the installation:

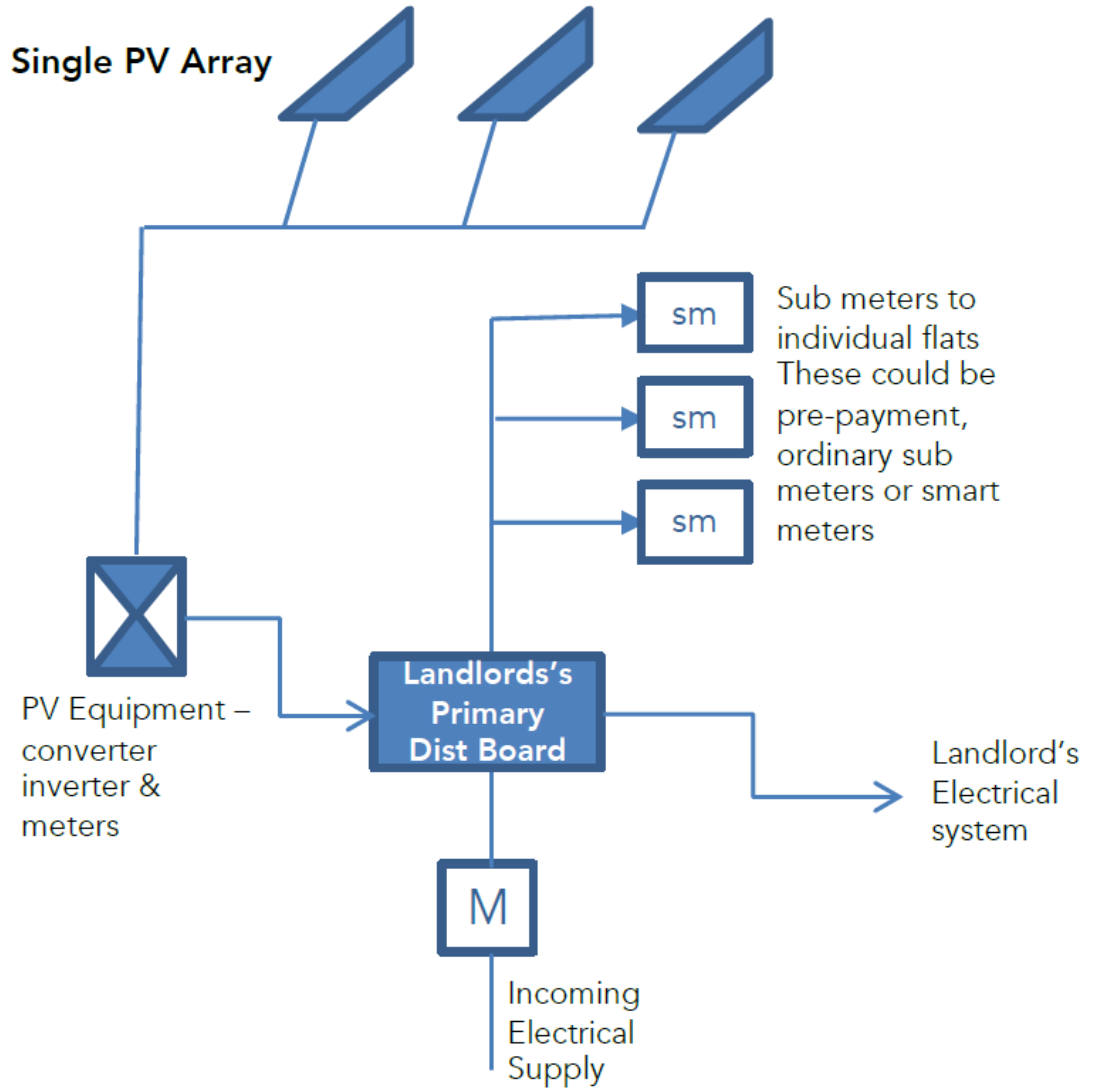
Buckley Close is a brand-new development, consisting of 12 social housing flats within three blocks. Each block only has one MPAN (grid connection point), with tenants' supplies sub metered by BHCC. This allows solar PV generated electricity to be consumed by tenants before it is exported to the National Grid.

Typical metering and wiring arrangements in blocks of flats mean residents receive no benefit from installations of solar PV, with any solar electricity generated on site feeding only communal facilities (e.g. lighting or lifts) via the 'landlord supply'. Energy bill savings that landlords gain by this arrangement are generally insufficient to make installation of solar PV commercially viable for apartments.

The new approach being demonstrated holds the potential to reduce tenants' bills and improve the commercial viability of solar PV for flats through the supply income generated. As responsible landlords, BHCC has chosen to return all value generated from its scheme to tenants by charging them a lower unit rate for electricity.



Buckley Close, Brighton with solar installation



Arrangement of solar energy installation at Buckley Close, Brighton