

# Hope Rise



**Client**  
Bristol City Council

**Location**  
Chalks Rd, St George,  
Bristol BS5 9EN

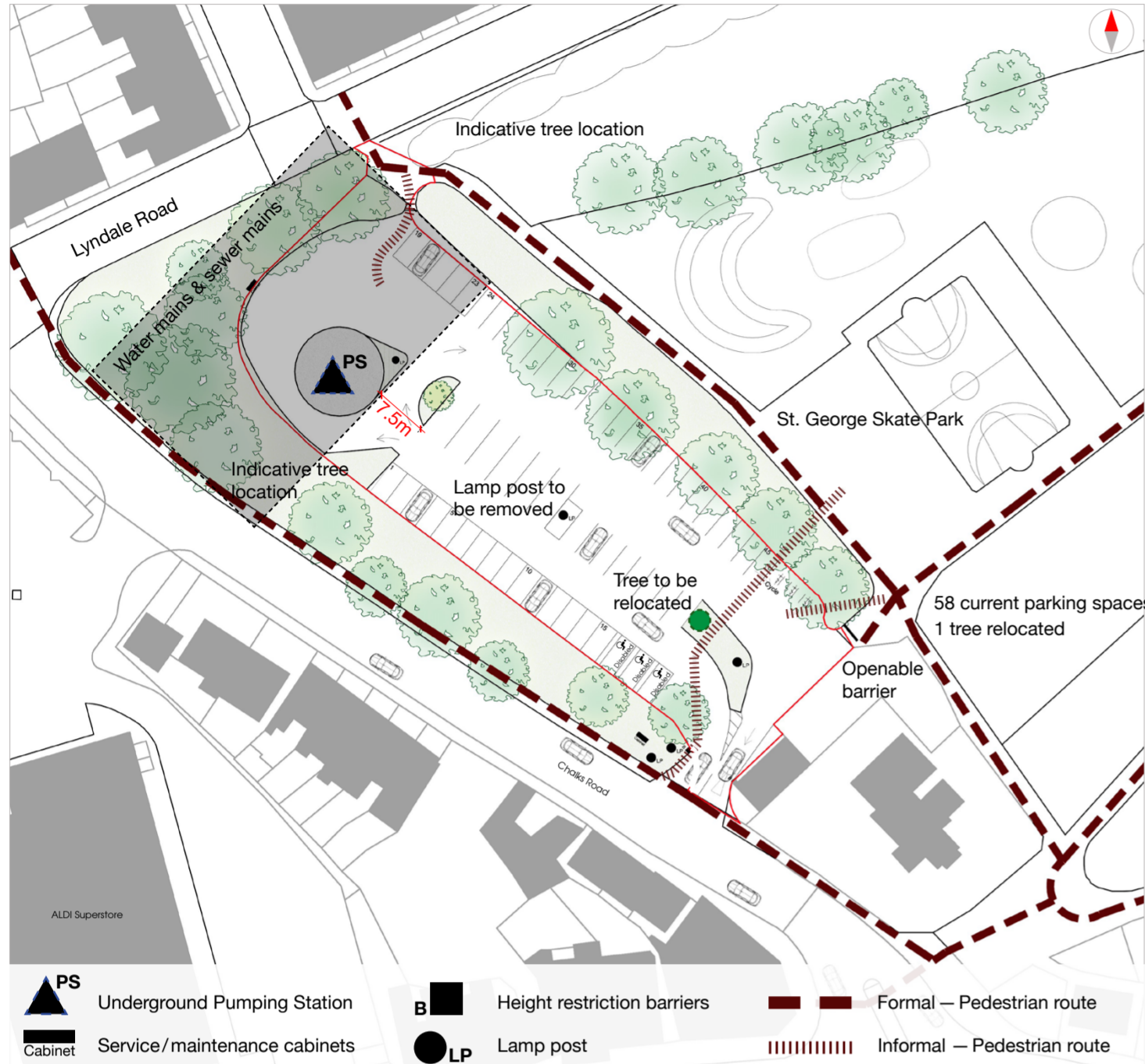
**Site Area**  
2,694 sqm

**Project Value**  
£1.4M

**Construction Product**  
Residential Social Housing  
Development

**Type of Work**  
Full turnkey for building 11 space standard compliant one-bed apartments  
using ZED PODS designs and BOPAS accredited build system.

Indicative car parking arrangements (as existing)



## Existing Site



## Public and Stakeholder Engagement



Above: ZED PODS show home showcased at the Bristol Housing Festival where the concept was presented to an audience of over 300 people in October 2018.

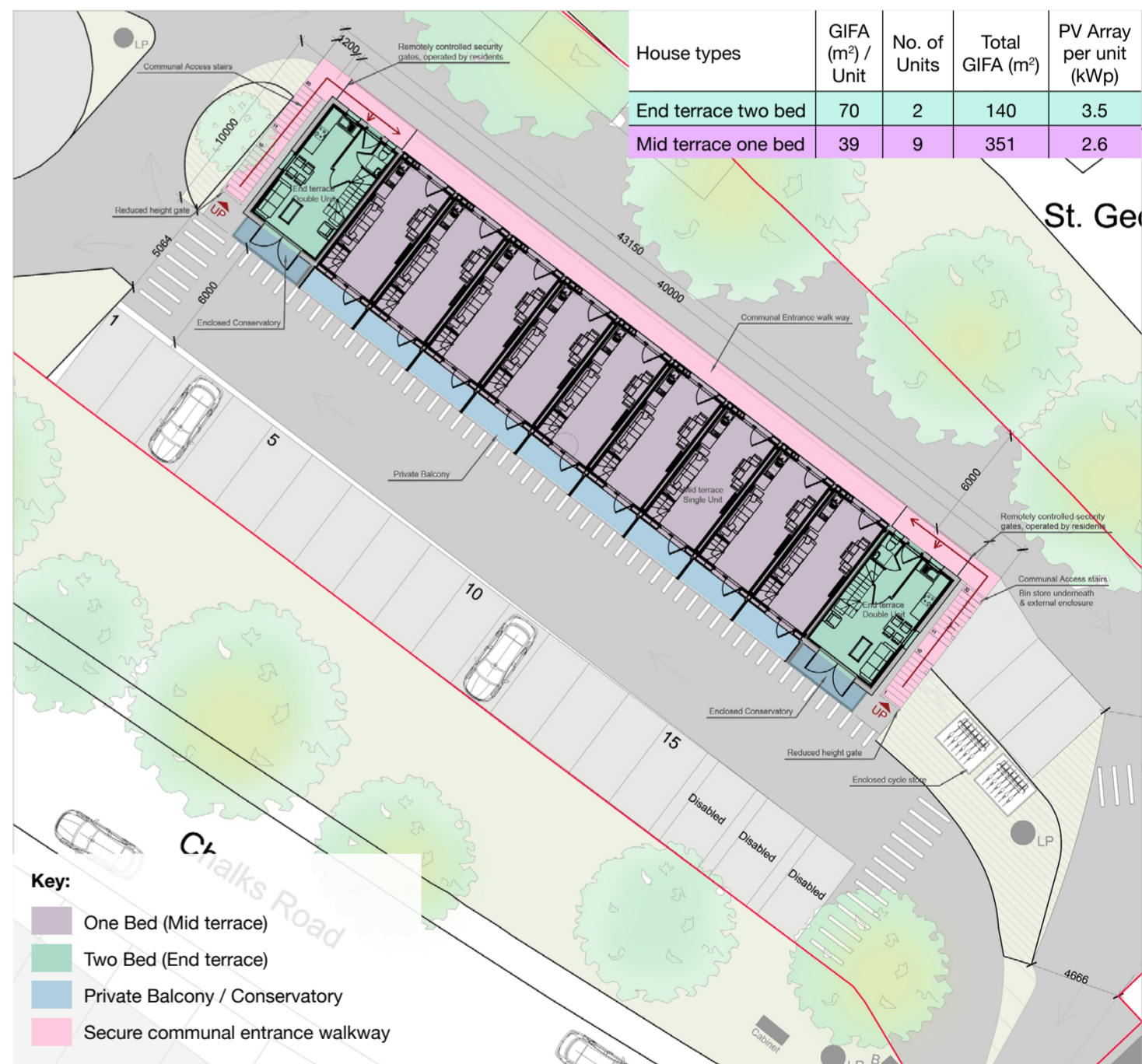
Above: Public consultation and community engagement in St George for the 'Hope Rise' Development in Bristol.

Proposed Site Ground Floor (Parking Level) Plan



Total 61 proposed parking spaces  
Adding 2 extra parking spaces,  
and relaying 35 parking spaces

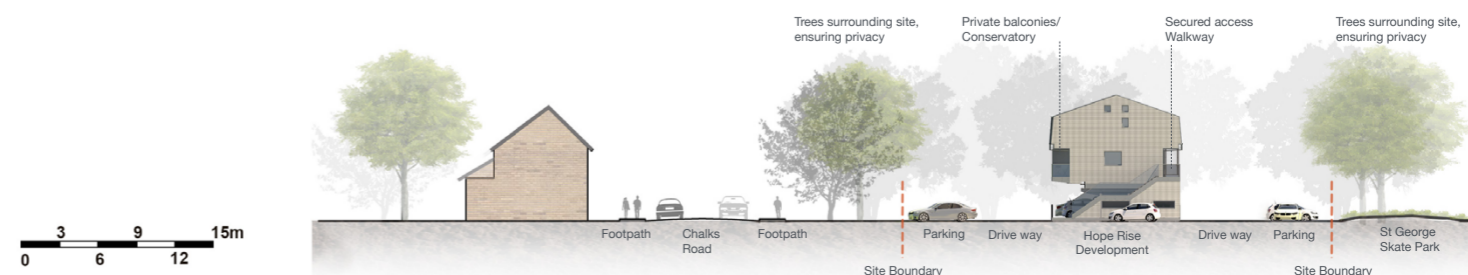
Indicative car parking arrangements (as existing)



Below: Proposed long site section



Below: Proposed short site section







## As Built Energy Performance

### Energy Consumption

22<sup>nd</sup> December 2020 – 21<sup>st</sup> June 2021

One-bed units **11,862kWh** Two-bed units **3,084kWh**

Total energy production  
**14,946**  
kWh per year

Total site wide energy generation (modelled)  
**16,112**  
kWh per year

Net energy consumption  
**-1,166**  
kWh per year

Based on the mix of model and actual data, the site is a net exporter of energy based on total consumption (regulated plus unregulated energy)

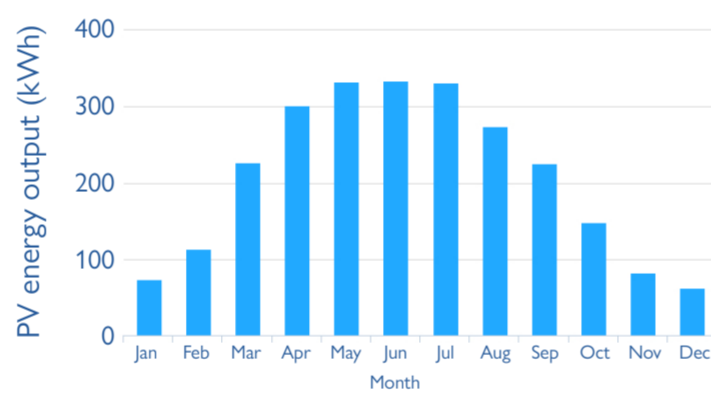
### PV Energy Production

22<sup>nd</sup> December 2020 – 21<sup>st</sup> June 2021

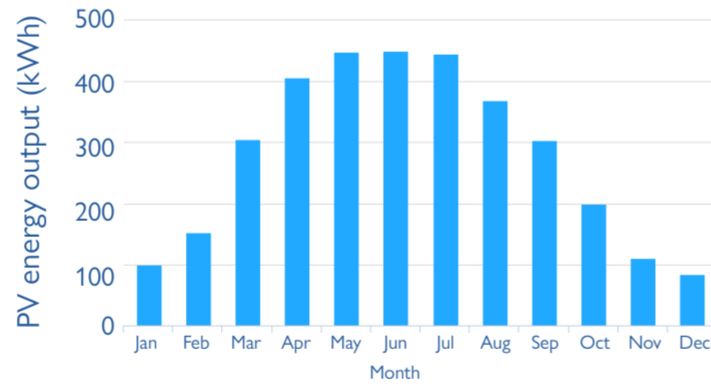
One-bed units **12,429kWh** Two-bed units **3,683kWh**

Total Annual PV Energy Production  
**105 panels** **16,112 kWh**

#### One-bed monthly energy generation



#### Two-bed monthly energy generation



The 105 panel roof mounted photovoltaic panels generate enough energy to cover the yearly demands of residents and also provide surplus power to the national grid.

### Average Operational Carbon Footprint per unit

**-0.91** tonnes CO<sub>2</sub> eq

Dwelling Emission Rate **-10.54 kgCO<sub>2</sub>/m<sup>2</sup>**

Combining the different zero carbon strategies each unit at Hope Rise achieves a Negative Dwelling Emissions Rate (DER) with a greater than SAP energy and carbon ratings.

### SAP – As Built

#### Measured Energy Performance

Score	Energy rating	Current	Potential
92+	A	109   A	112   A
81-91	B		
69-80	C		
55-68	D		
39-54	E		
21-38	F		
1-20	G		

Flat 1 Hope Rise  
Chalks Road  
BRISTOL  
BS5 9FP

Energy rating **A**

Valid until **6 December 2030** Certificate number **6330-4732-5009-0173-0206**

### The 2021 United Nations Climate Change Conference

Hope Rise was the only modular social housing development in the UK showcased at COP26



## Handover and tenants support – Low carbon living

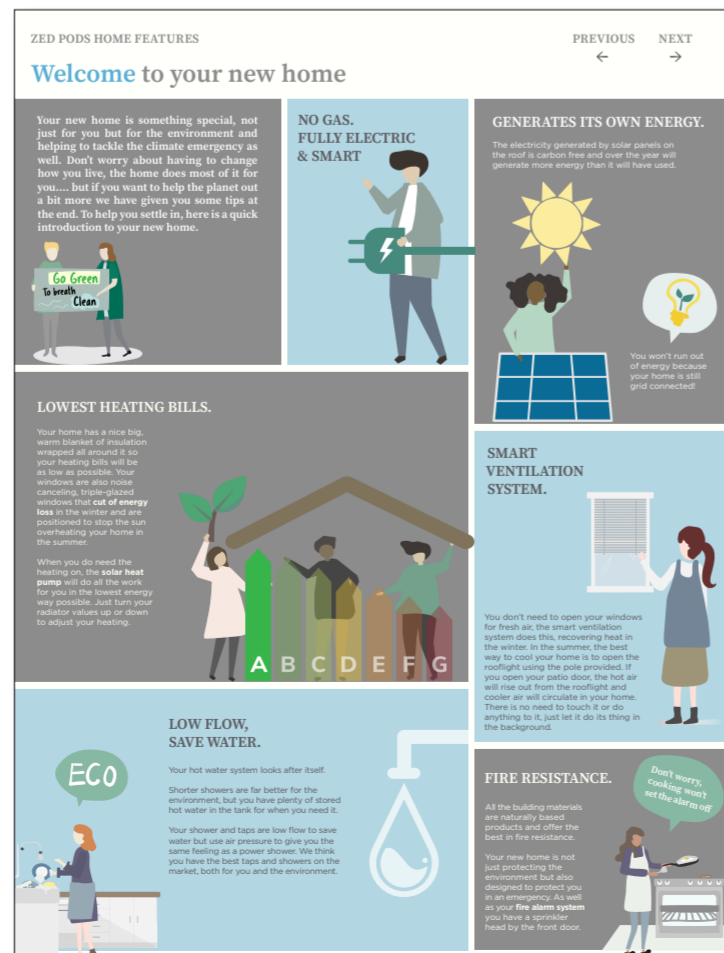
### Home User Guide

Part of tenants training and Client Satisfaction & Care



### Home Welcome Leaflet

Part of tenants training, promote low carbon living



### Post Occupancy Evaluation

The project is the first completed MMC project to receive a grant from Innovate UK, Commonweal Housing and University of the West of England.

