



Willox Park Sheltered Housing  
A Net Zero Ready Development\_\_\_\_\_



Wilcox Park (Phase 1) is a new 17-unit sheltered housing complex located in Dumbarton.

Developed for West Dunbartonshire Council, these properties achieve a very high level of energy performance.



Carbon Futures was appointed to provide energy consultancy services through to completion.

The energy strategy included:

- ▶ **Enhanced fabric performance** including low U-values, triple glazing & high levels of air-tightness

- ▶ **Ground Source Heat Pump** with Shared Ambient Loop (Boreholes) for Heating & Hot Water
- ▶ **Mechanical Ventilation with Heat Recovery (MVHR)**
- ▶ **Solar PV Panels** with **PV Diverters** to re-direct surplus energy to hot water cylinder





Wilcox Park Phase 1 was designed to achieve:

- ▶ **Aspect Platinum Level 1**  
Greenhouse Gas Emissions
- ▶ **Aspect Gold Level 2**  
Energy for Space Heating
- ▶ **Aspect Silver Levels 3-8**  
Section 7 (Sustainability) of Building Standards

The package of energy efficiency measures on this affordable housing development ensures an average carbon reduction of **50%**.

**93A**

Average  
Energy Efficiency  
Rating (SAP)

**54%**

Dwelling  
Delivered  
Energy Rate  
(DDER)

**99A**

Average  
Environmental  
Impact Rating  
(CO<sub>2</sub>)



As we continue to design new social houses in the landscape of Net Zero, we are grateful for the constant assistance and expertise of Carbon Futures, who support us through the options.

Carbon Futures are a principal member of our design team and guided us towards our first Ground Source Heat Pump design at Willox Park, which will work alongside PV Panels and MVHR.

**Dawn Conner**

**West Dunbartonshire Council**



**Carbon  
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