

BIG 4 DECARBONISATION PROJECT

Briefing Report Part I



Following feasibility and de-risking work for heat decarbonisation of four PCC sites, the business case has been approved (09/02/2021). This heat and building fabric project will reduce nearly 5,000t of carbon emissions over the life of the measures (heat pumps, CHP, glazing and insulation).

The project is expected to cost about £3.136mil, including commercialisation and project delivery support.

A capital grant and project delivery grant have been applied for to cover 80% of the project costs. The rest of the costs are covered by S106 money and existing refurbishment and repair/maintenance budgets.

The project covers four sites with a range of heat decarbonisation measures:

- **Guildhall Cluster:** High temperature Air Source Heat Pump located at the Guildhall with district heating connections to Council House, Law Courts and Midland House. Solar PV array on Guildhall and Midland to help electrical demand of HP. CHP at Guildhall.
- **Ballard House:** High temperature ASHP & controls with insulation of the 'ceiling' in the basement and external roof insulation.
- **Elliot Terrace:** High temperature ASHP, located on the roof, with draught proofing and secondary glazing. Solar PV array to help electrical demand of HP.
- **Poole Farm:** ASHP

This project supports the need to reduce carbon emissions across the PCC estate, which contributes to the Corporate Carbon reduction Plan, and the climate emergency declaration with the net zero carbon pledge.