# ANNEX 1 – DETAILS OF TENDER COMPONENTS

## CLIENT: LAKE DISTRICT NATIONAL PARK AUTHORITY – BOWNESS BAY INFORMATION CENTRE

1. **Component 1**
   1. Installation of an air source heat pump to replace the heating and domestic hot water currently provided by the gas boiler. We do not wish to retain any element of the gas-heated wet system.  
      Heating – spaces to be heated include the main information / shop area, the rear office area and the public and staff toilets, although heating for the toilets may be independent of the heat pump (eg. convection heaters or heat recovery ventilation units). This does not include the café area which is heated independently or the rear store room which does not require heating.
   2. Removal of all un-needed existing electro-mechanical / heating equipment, including from the loft space.
   3. Insulation of the entire ceiling to U-value of 0.16 W/m2k or better.
2. **Component 2**
   1. Installation of solar PV. The size of the array to be scaled to optimise supply of renewable electricity to the building based on the building’s electricity consumption.
   2. Installation of battery storage in conjunction with the above **IF** this can be shown to improve the matching of supply of renewable electricity to the demand **AND** can be demonstrated to achieve financial pay-back within the lifetime of the system.
3. **Component 3**
   1. Replacement of rear cafe door on the southern elevation with a timber composite insulated unit to U-value of 0.81 W/m2k or better.
   2. Replacement of single-glazed store-room window with double-glazed unit to U-value of 2.0 W/m2k or better.