

Question from Councillor Mitchell – Response given outside the meeting

**Question:** What is the full cost to decarbonise the RAMM? And the same for Riverside

**Response:** See below the three heat decarbonisation options further to a high-level Decarbonisation survey at the RAMM

Element Option	1: Heat pump	Option 2: Bivalent	Option 3: District heat network
Programme	DNO upgrade 3-5 years if required Programme should factor in solar PV Recommendations	No external constraints Programme should factor in solar PV Recommendations	Heat network delivery 3-4 years Anticipated completion near RAMM by Jan-2028
Technical	Higher temperature heat pump required to satisfy building emitters, as AHU and fan coils may be difficult to replace	More complex system Control strategy needs to ensure that heat pumps take precedent and provide majority of heat Higher temperature heat pump arrangement could be required to satisfy demand from existing building emitters, particularly coils in AHUs and fan coils. This could be mitigated by improved controls	Heat network anticipated to operate at 80 f low / 55 return, which is closer to f low temperatures of current system. Improved controls, such as PICV arrangements and VSD pumping, could help to reduce return temperatures closer to the heat network.
Economic	High capital costs High operation costs	Lower capital costs High operation costs	High capital costs High operation costs