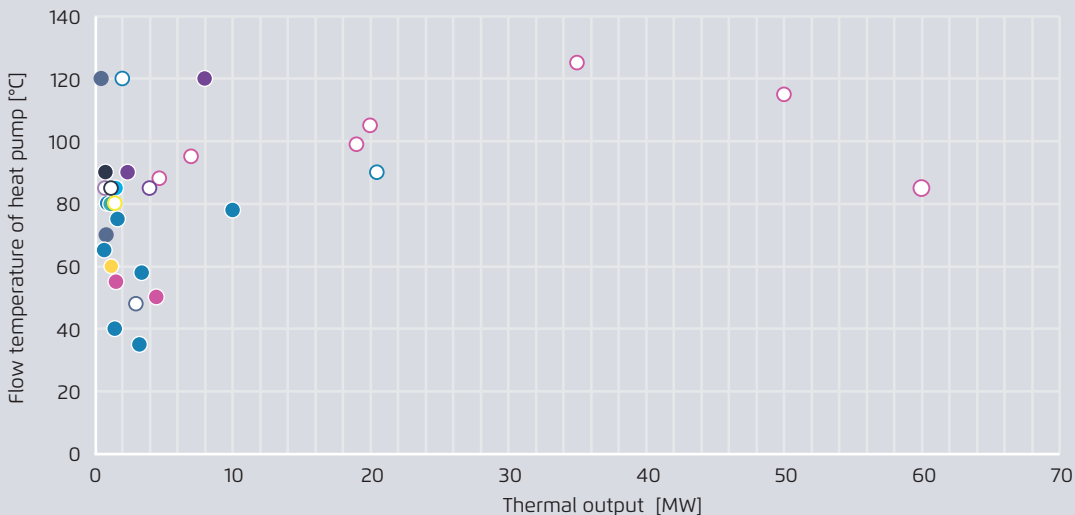


# Heat sources and individual outputs of existing and planned large-scale heat pumps in Germany\*

Figure 5



- Ambient air
- Servers and data centres
- Various heat sources
- Water bodies (Lakes/rivers/seas)
- Deep geothermal energy
- No information on heat source
- Pit water
- Waste heat
- In planning
- Waste water and sewage treatment plants

Fraunhofer IEG based on AGFW (2022). \* There is only a small number of projects in the range 0.5 to 1 MW. This can be explained by the fact that this performance range is often delivered by interconnected heat pumps from smaller performance classes. Since in these cases the individual heat pumps have a thermal output of less than 500 kW and thus cannot be classified as large-scale heat pumps according to the definition in this study they are not considered here.