



MADINGLEY ROAD

REFLECTIONS ON A 18 YEAR PROJECT

- Design commenced 2005
- Single storey timber frame L shape
- Poor shape for thermal efficiency and airtightness
- Counteracted by high levels of insulation and solar gain from South and East glazing
- GSHP, MVHR, Solar hot water, rainwater recycling, green roof

LIVING EXPERIENCE

All systems working well after 13 years with no or minimum maintenance

Rainwater recycling requires occasional cleaning

Passive House levels of energy use

FUTURE DEVELOPMENT

Increase solar shading

Add solar panels and battery storage

Use ground source boreholes for cooling in summer