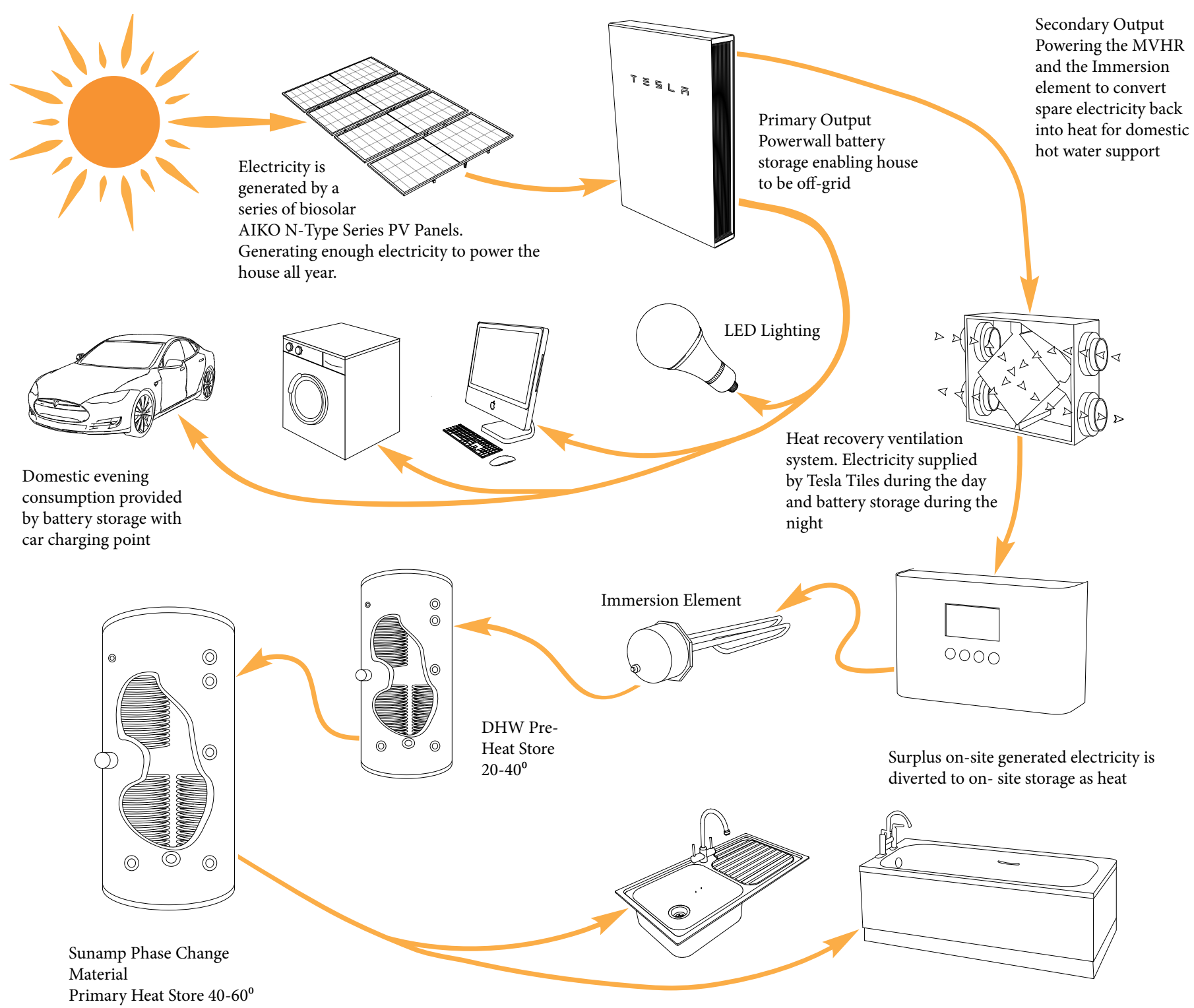


PART SIXTEEN
BUILDING ANALYSIS
Innovative Low Carbon Strategies





CALDYNE PARK

Land at Caldine Park,
Turners Hill Rd,
West Sussex
RH10 4NB

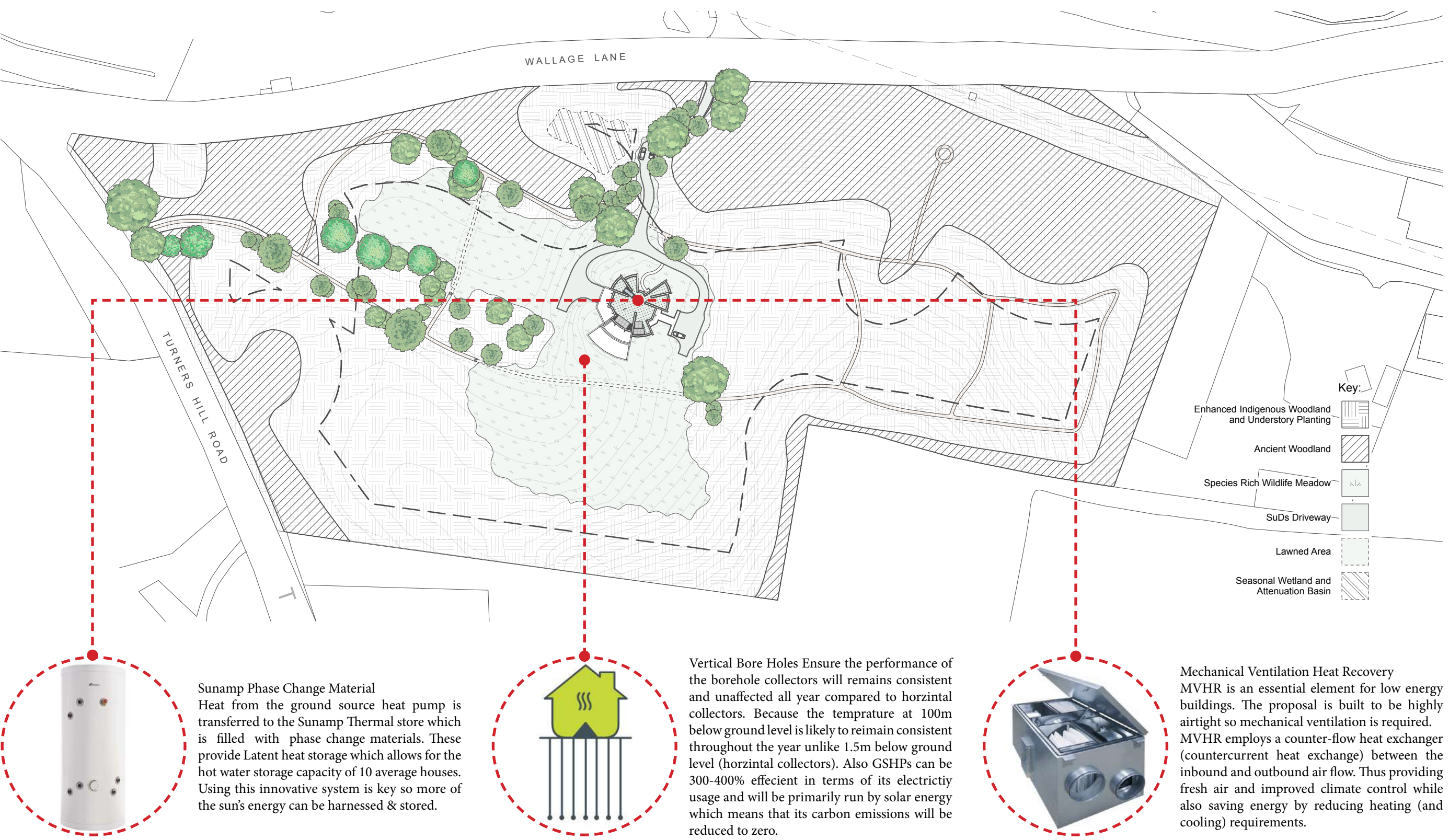
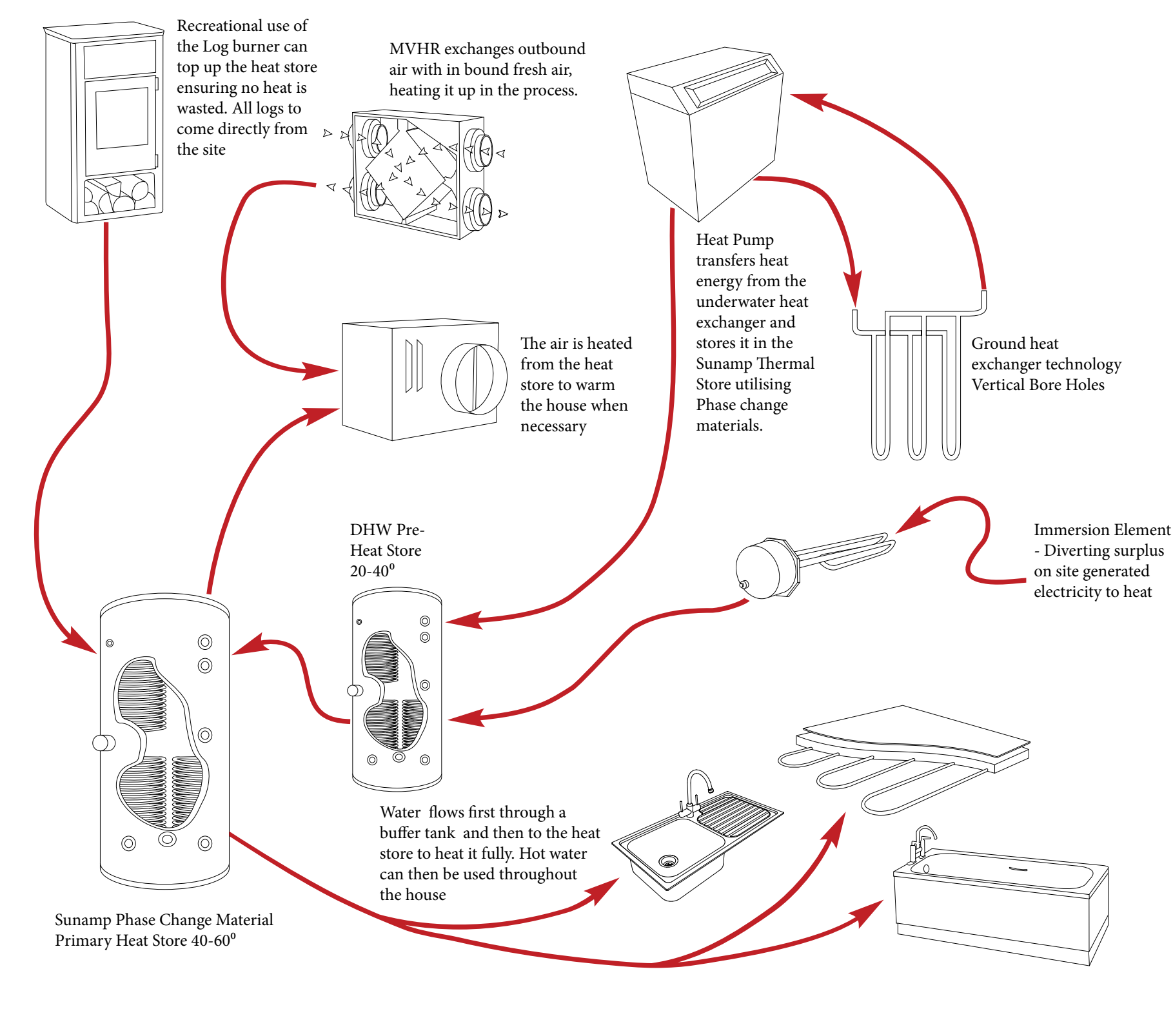


Our proposal includes the installation of nine AIKO N-Type ABC Black Hole Series Solar Panels. These Cutting edge mono-crystalline Silicon Panels can each produce up to 615pW and only have an annual degradation of <0.35%. Using output analysis software these panels have been purposefully placed to optimise the solar electricity generation.

PV Installed: 5.07kWp
Yearly PV Energy Production (on-site): 4770.15kWh
Year-to-year variability (on-site): 152.13kWh

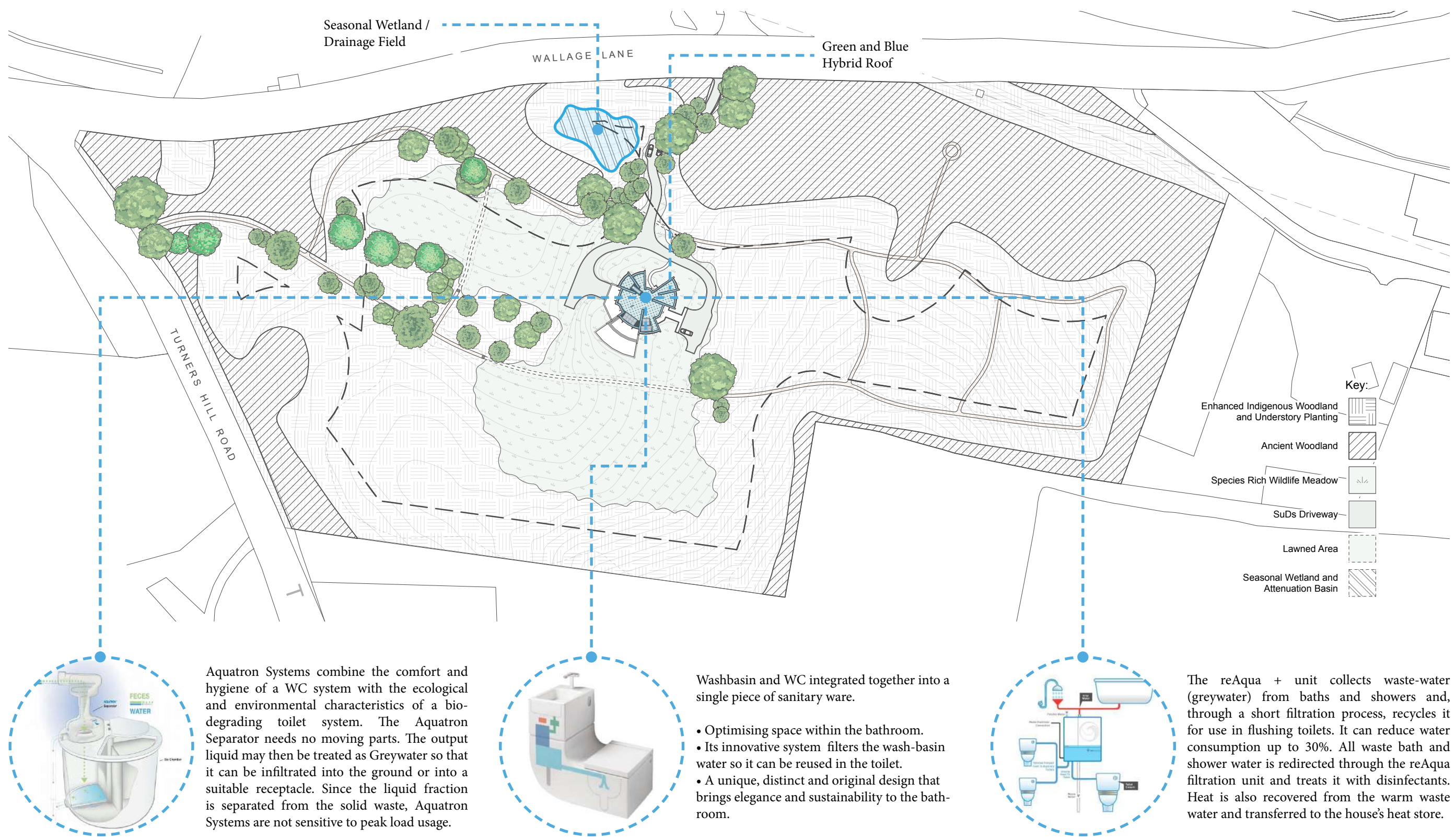
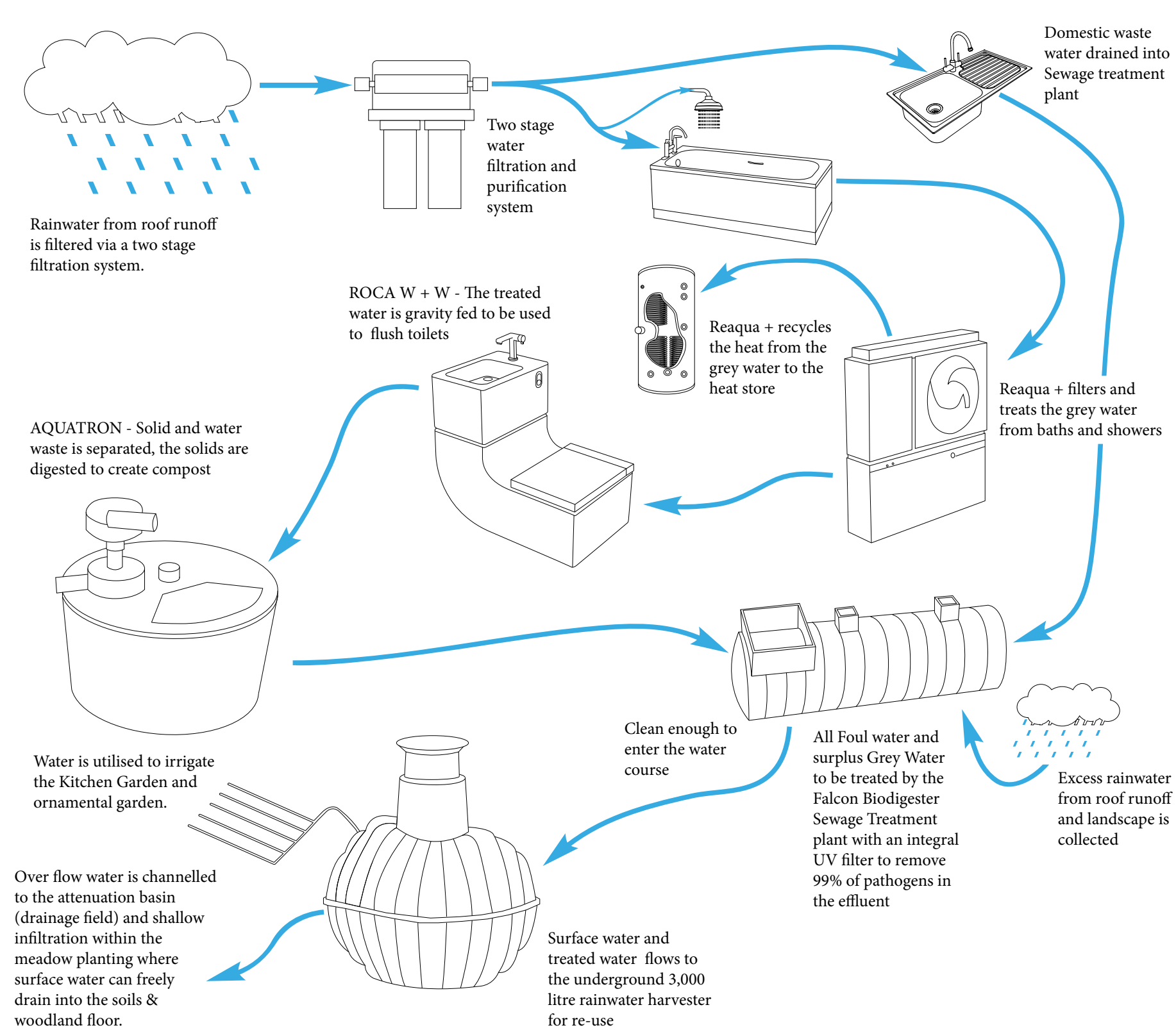
The installation of 3 Tesla Powerwalls, an innovative system which stores on site generated DC electricity during daylight hours and uses the stored electricity during evening hours, dramatically improving the buildings independence, removing the need for grid based electricity. It uses a high-capacity Lithium-ion battery to store energy produced from solar panels, just like those used in everything from laptops to electric cars, but it works in Harmony with the Solar Panels.

The immerSUN unit transfers all surplus solar generated electricity (after Telsa Powerwall is fully charged) and diverts it to an immersion heater element in the phase change heat store. This technology minimises the buildings reliance upon the grid as on-site Solar Panel generated energy can be stored for use when in high demand.



Building Analysis

Innovative Low Carbon Strategies
Drainage and Water Treatment



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