

Climate Change / Energy / Sustainability Assessment

HCC Vulnerability Assessment			
Climate Variable: Heat, Heat Waves and Extremes	Climate Variable: Sea Level Rise and Coastal Flooding	Climate Variable: Heavy Rainfall and Surface Flooding	Climate Variable: Extreme Storm and Wind Events
Low Risk: Although currently the school is at a high risk to heat events, the works involved in this project, as noted below, will significantly reduce this risk	Low Risk: The project is not located near the coast or at a low elevation.	Low Risk: A review of the Government Map for Planning, surface water flood risk assessment shows that the site itself and the surrounding area i.e. roads fall within 'Flood zone 1, an area with a low probability of flooding'.	Low Risk: It is unlikely that extreme storm or wind events will impact the school buildings or site.

HCC Strategic Priorities			
1. Hampshire maintains strong and resilient economic growth and prosperity.	2. People in Hampshire live safe, healthy, and independent lives	3. People in Hampshire enjoy a rich and diverse environment	4. People in Hampshire enjoy being part of strong, inclusive, resilient communities
An improved learning environment (i.e. improved heating and ventilation) will help the children to develop new skills and education for future introduction to the workplace.	An improved learning environment will enable local children and young people to get a good start in life.	By significantly improving an existing building rather than demolishing and building a new one, natural resources are conserved. By improving the energy efficiency of the building, energy is conserved.	By maintaining and improving an existing school, the local community is supported.

HCC Carbon Mitigation Assessment	
Initial Construction	The demolition of the existing SCOLA façade and incorporated crittall windows and doors, and the construction of a new highly insulated façade, new insulated roof overlay, new LED lighting and associated mechanical and electrical items will initially cause an increase of embodied carbon.
Operational Use	The project will significantly reduce the operational carbon emissions used in heating and lighting the school building.

Increased roof insulation
The roof area of the single storey block will be upgraded with a new insulated overlay to significantly reduce heat loss through the roof.
NVHR
All classrooms in the humanities block will have Natural Ventilation with Heat Recycling Units (HVR) installed to ensure adequate ventilation is possible throughout the year. This will mitigate having to open windows in winter (in order to reduce heat loss) and also excess heat during the summer can be purged during the night.
Replacement Windows and Doors
All single glazed windows and doors will be replaced with high-quality double-glazed fenestration.
Wall Cladding
The wall cladding includes a significant increase in the amount of insulation, and the modern construction will improve the airtightness of the building thus further reducing the heat loss through the facades.