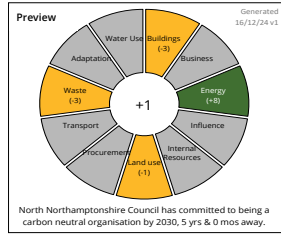


Climate Change Impact Assessment Tool (v1)



Generated 16/12/24 v1

Copy to clipboard

Save to desktop

Copy alt-text



Directorate & Service Area	Assets and Environment, Capital Projects
Report Name	Earls Barton Primary School Expansion
Report date	10th September 2024
Report author & role	Louise Shivers, Construction Project Manager
Proposal Summary	Phase 1 car park works and Phase 2 construction of new school extension and other modifications to the existing Infant and Junior school blocks. This CCIA is to accompany a request for an uplift in funding to the existing active project.
Export filename	Earls Barton Primary School Expansion CCIA 10th September 2024 .png

Category	Impact	Notes / justification for score / existing work (see guidance sheet or CCIA detailed notes for more information)	Score (-5 to +5)	Mitigations (If the impact is negative, please provide a mitigating action for reducing the impact going forward)
Buildings	Building construction	<p>Phase 1 (Car Park and KS1 Toilet Works) - These works include the strip back and excavation of an existing grassed area adjacent to the school. The works will involve the removal of approximately 5.No trees and areas of low lying shrubs. The new car park will be surfaced with permeable block paving with pre-cast concrete kerbs to the perimeters. The areas surrounding the new car park will be planted in accordance with plans provided by the landscape architect.</p> <p>As part of the Phase 1 works the creation of an additional female toilet facility will be undertaken. The works include the demolition of an existing internal cleaners store which will incorporate the removal of an Asbestos clad door, construction of a new studwork entrance wall with painted timber access door, plastering of all areas and finishing of all walls with a hygienic wall cladding, formation of high pressure laminate cubicles and vanity unit, installation of new ceramic toilets and trough sinks, LED lighting, new fire detection and vinyl floor coverings.</p> <p>Phase 2 (New Build Extension) - The works involve the construction of a new single story extension. The new building is to be of traditional construction (Brick and Blockwork) with a mixture of flat warm roof areas and pitched cold ventilated roof areas. All new windows are to be PPC Aluminium thermally broken units. All new classroom and corridor areas are to be finished with skimmed and painted plasterboard, painted timber internal doors and a mix between carpet and vinyl floor finishes. Wall cavities will be filled with insulation. The new extension will also incorporate the formation of a new Part M W/C facility and new sink and storage areas</p>	-3	Whilst the removal of areas of grass and trees to form the new car parking have a negative impact on the works allowance has been made for significant areas of replacement landscaping.
Buildings	Building use			
Buildings	Green / blue infrastructure			
Business	Developing green businesses			
Business	Marketable skills & training			
Business	Sustainability in business			
Energy	Energy efficiency	<p>The new extension will include the following mechanical heating and ventilation infrastructure:</p> <ul style="list-style-type: none"> - All new classrooms will have a mechanical ventilation system installed with heat recovery capability. - All new classrooms will be heated and cooled via an VRV (Variable Refrigerant Flow) A/C system with heat recovery capability. Each classroom will have it's own controls to allow each area to manage the heating/cooling within the space. - All new corridors will be heated and cooled via VRV (Variable Refrigerant Flow) wall mounted A/C units with heat recovery capability. Each unit within the corridor will be separately controlled. - All toilets will be heated with a wall mounted LST (Low Surface Temperature) electric panel heater. - All toilets will have mechanical extraction individual to each space. - All new classroom sinks and W/C wash basins will be fitted with electrically powered point of use water heaters to provide hot water to each area hot outlet. - All lighting internal and external to the new extension will be LED (inclusive of emergency lighting), approximately 125 fittings. - Photovoltaic panels will be installed to the new pitched roof areas. <p>The new school block will have no connection to the existing mains gas supply existing on the site and will have no connections to the gas fired boilers that exist within the Infant school and Junior school blocks.</p>	+3	
Energy	Reducing energy demand	Photovoltaic panels will be installed to the roof area of the new extension providing a renewable electrical supply to all services. The new system is being designed and installed by a specialist solar PV supplier and the goal is for these panels to create sufficient energy to allow the school to feed power back into the grid balancing out electrical usage within the existing Infant and Junior school blocks.		
Energy	Switching to low-carbon energy supply	All new services within the new extension will be electrically powered. These items will obtain their supply via new Photovoltaic panels installed on the new extensions pitched roof area. All electric heating, same with ventilation and hot water.	+5	
Influence	Communication & engagement			
Influence	Wider influence			
Influence	Working with communities			
Influence	Working with partners			
Internal Resources	Material / infrastructure requirement			
Internal Resources	Staff time requirement			
Internal Resources	Staff travel requirement			
Internal Resources	External funding			
Internal Resources				
Land use	Carbon storage	5 mature trees and ground cover will be removed to make way for the site.	-1	replacement planting/ landscaping will be added
Land use	Improving biodiversity adaptation			
Land use	Natural flood management			
Land use				
Procurement	Food & Drink			
Procurement	Products			
Procurement	Single-use plastic			
Procurement	Services			
Procurement				
Transport	Decarbonising vehicles			
Transport	Improving infrastructure			
Transport	Demand reduction			
Transport	Supporting people to use public transport			
Transport	Supporting people to use active travel			
Transport				
Waste	End of life disposal / recycling	<p>As the extension is being undertaken on empty areas of the school site the disposal of waste items during the initial excavation/strip out phase will be fairly minimal for a project of this size. Waste items will include the following: -</p> <ul style="list-style-type: none"> - Foliage and green waste - Tarmac surfacing - External brickwork - External fencing - Waste soil <p>The waste during the construction phase will be mostly single use wastage such as packaging materials etc. Any packaging and waste produced during the construction process will be disposed in accordance with statutory requirements e.g. recycling, WEEE Regulations, hazardous waste control etc.</p>	-1	
Waste	Waste volume	Due to the nature of the works and large scale excavations required there will be an increase in waste volume produced on the site during the initial stages of construction. As this is a new build there will also be an increased volume of waste produced in the manufacture of materials, fixtures and fittings. Asbestos will be removed and disposed of by specialists waste management.	-2	
Waste				
Adaptation	Drought vulnerability			
Adaptation	Flooding vulnerability			
Adaptation	Heatwave vulnerability			
Adaptation				
Water Use	Improving water-use efficiency			
Other	Other 1			
Other	Other 2			
Other	Other 3			
Other	Other 4			