Environmental Management System – Water Consumption Targets

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Date Approved:	27 JUN 2025

Water Consumption Targets

Aim of the target	EMS Water Target	Approved? (Yes / No)
Mitigate the impact of increasing water costs; Enhance UEA reputation for sustainable resource consumption.	**Reduce potable water consumption by 14% by 2032 and 20% by 2038 against a 2019 baseline.**	**Yes**

Review of Proposed Targets

Proposal – Description	UEA Water Target	Comments
Align UEA water consumption reduction with local; regional or national targets	**Reduce potable water consumption by x% by 20xx. Reduce consumption by x litres per student/staff by 20xx.**	UK Environment Act 2021 sets a target to reduce the use of public water supply in England, per head of population, by 20% by 2037-38 from the 2019-20 baseline, with an interim target of 14% by 2032. The Anglian Water Resource Management Plan reflects similar targets for the East of England. Aligning with these targets would ensure UEA is aiming for a 'fair share' of overall consumption reduction.
Grey water Re-Use	**Implement grey water reuse systems on x buildings by 20xx.**	Grey water systems are in place on some campus buildings, but all have been decommissioned due to difficulties in maintaining and obtaining spare parts. The cost and maintenance implications of recommissioning these systems needs to be established before the viability can be determined.

		The option to add new systems to other buildings will likely result in longer ROI times and therefore existing systems are likely to be prioritised.
Rainwater capture, storage and use	**Zero potable water used for irrigation by 20xx.** **Rainwater capture on x buildings by 20xx.**	Cost to install and operate rainwater systems currently unknown. Demand profile of water used for grounds upkeep also needs to be established. Similar issues as grey water for implementing storage and reuse within buildings.
Leak detection	**Reduce water loss from leaks by x% by 20xx through implementation of smart leak detection systems.**	Difficult to establish the current rate of leakage. Leak detection could be improved through better monitoring and visibility of water consumption. This should be considered as part of the utility metering strategy.
Reducing water used by appliances	**All appliances to be 'A' rated for water efficiency by 20xx.**	Needs procurement guidelines to be implemented so water efficiency is considered when replacements are purchased. Timescale for EOL replacement of all appliances needs to be established. Water efficiency labelling currently not in place in UK, but likely to be introduced soon.
Upgrading fittings for water-saving alternatives	**Water saving taps to be used in all buildings on campus by 20xx.** **All residences to be fitted with water saving shower heads by 20xx.**	Needs procurement guidelines to be implemented so water efficiency is considered when replacements are purchased. Trials currently in progress to assess suitability of infra-red sensor taps and timed shower controls.
Improving Legionella flushing process to use less water	**n/a**	Health and safety prioritised over reducing water consumption. Water consumption could be considered when reviewing method statement for flushing.
Education campaign to promote sustainable water consumption among staff and students	**Attend two events on campus per year to promote sustainable water consumption.** **Install water saving advice/ labelling in all student residences by start of next academic year.**	Difficult to quantify savings that may be achieved. Consider including water saving advice as part of overall sustainability communication plan.
Improve visibility of water consumption through smart metering and displays	**Live water consumption data for each building to be accessible to staff and students by 20xx.** **Water consumption of each accommodation unit to be accessible to residents by 20xx.**	Consumption data will be monitored and processed under the utility metering system. Access and display of this data will be controlled according to the metering strategy. Water sub-metering and data infrastructure within accommodation blocks is limited. Cost of further metering to be assessed against potential impact on consumption.