



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

WATER MANAGEMENT PLAN

2025-2030

A future-ready institution where sustainability is embedded across education, research, operations and daily practice, honouring our responsibility to current and future generations.

UWTSD Group Environmental Sustainability Strategy

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Approval..... **Error! Bookmark not defined.**

1. Introduction

The university identifies water as a key priority within its Sustainability Plan, in line with the UN Sustainable Development Goals. Water scarcity may be a major factor impacting society moving forward so as a large body we need to ensure we are taking action to mitigate our potential impact.

To ensure the university is in statutory compliance with all legislative requirements regarding water. UWTSD has a statutory duty to ensure our consumption of water resources is not negatively impacting the environment or future generations in line with the Environment Wales Act 2016. We need to ensure we are looking to improve our flood mitigation and rainwater capture to improve groundwater recharge and improve peak overland flow intervals to reduce capacity loading on local authority infrastructure.

UWTSD has linked this strategies with its commitment to the UN Sustainable Development Goals with this document contributing to the below SDG.



2. Alignment with UWTSD Group Environmental Sustainability Strategy 2025-2030

This Water Management Plan is a key delivery document supporting the UWTSD Group Environmental Sustainability Strategy 2025–2030, translating the University’s strategic commitments into targeted actions to improve water efficiency, resilience, and responsible resource management across the estate.

Water consumption and management are critical components of the University’s environmental impact, with increasing importance in the context of climate change, resource scarcity, and flood risk. Effective water management therefore supports both the University’s sustainability ambitions and its statutory responsibilities.

This Plan contributes directly to the delivery of the Strategy’s core pillars:

OUR PEOPLE: By promoting awareness and behavioural change, this Plan encourages staff and students to adopt responsible water use practices, supporting a culture of sustainability and shared responsibility for resource conservation.

OUR PURPOSE: By reducing water consumption, improving efficiency, and ensuring compliance with environmental legislation, this Plan supports the University’s commitment to responsible resource management and climate resilience.

OUR PLACE: By improving water efficiency across the estate, implementing rainwater harvesting and sustainable drainage solutions, and reducing pressure on local infrastructure, this Plan enhances the resilience and environmental performance of UWTSD campuses and their surrounding communities.

This Water Management Plan is closely aligned with the Net Zero Carbon Management Plan and wider sustainability management plans, forming part of an integrated framework to deliver the University’s environmental sustainability objectives.

3. Building on past success

- 🌱 In the 23/24 academic year water consumption in Swansea was down to 3.4m³ per student FTE
- 🌱 The sustainability team ran a campaign to encourage students in halls of residence to reduce the length of their showers.
- 🌱 In the 23/24 academic year water consumption in Cardiff was down to 1m³ per student FTE
- 🌱 Overall 23/24 water consumption in Wales was at 42,261m³ which is 7,350m³ below the baseline figure.
- 🌱 In the 2024/25 People and Planet League UWTSD scored 1st nationally for the 'Water Reduction' category. In the 2025/26 leave UWTSD came 3rd nationally and 1st in Wales.

Her Cawodydd 5 Munud o Hyd

The 5-Minute Shower Challenge

Lleihau Carbon
Mae gwresogi llai o ddŵr yn golygu defnyddio llai o ynni a lleihau'r defnydd o danwydd ffosil.

Cut Carbon
Heating less water means using less energy and reducing fossil fuel consumption.

Lleihau Dŵr Gwastraff
Mai llai o amser yn y gawod yn golygu llai o ddŵr gwastraff sydd angen ei drin a'i ryddhau i'r amgylchedd.

Reduce Wastewater
Less shower time means less wastewater needing treatment and release into the environment.

Ymunwch â ni – mae newidiadau bychain yn gwneud gwahaniaeth mawr.
Join us – small changes make a big difference.

Conserve Water
Fresh water is precious. Shorter showers protect this limited resource.

Arbed Dŵr
Mae dŵr ffres yn werthfawr. Mae cawodydd byrrach yn diogelu'r adnodd cyfyngedig hwn.

Ar gyfartaledd, mae cawod 10 munud o hyd yn defnyddio 80 litr o ddŵr.

The average 10-minute shower uses 80 litres of water.

A wnewch chi helpu i arbed dŵr a lleihau allyriadau carbon trwy leihau eich amser yn y gawod i 5 munud?

Will you help save water and cut carbon emissions by reducing your shower time to 5 minutes?

Gwir Effaith:
Fe wnaeth astudiaeth gan Brifysgol Surrey o 290 o gawodydd neuaddau preswyl, yn olrhain 86,000 o gawodydd unigol dros dymor 39 wythnos, ganfod amseroedd cyfartalog o 6 munud 40 eiliad yn y gawod. O'u cytuno, yn defnyddio 4.4 miliwn litr o ddŵr poeth ac yn allynu 15 tunnell o CO₂e (sydd cyfwerth â hedfan o amgylch y byd 2.5 o weithiau).

Real Impact:
A University of Surrey study of 290 halls of residence showers, tracking 86,000 individual showers over a 39 week term, found average shower times of 6min 40sec. Combined consuming 4.4 million litres of hot water and emitting 15 tonnes of CO₂e (equivalent to fly around the world 2.5 times).

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Diolch am fod yn arwr gwyrdd.
Cysylltwch â ni: sustainability@uwtsd.ac.uk

Thank you for being a green hero.
Get in touch with: sustainability@uwtsd.ac.uk

4. Objectives

The overarching objectives of the water management plan are:

-  To reduce overall water consumption per FTE student and staff member to below 4.5m² by 2026 and 3.5m³ 2030.
-  Develop a baseline of agricultural and grounds based water consumption
-  Reduce consumption through identification and elimination of leaks
-  Develop rainwater collection and ground water recharge systems to reduce infrastructure loading.
-  Improve water efficiency through utilization of technology and estate rationalisation
-  Compliance with all applicable legislation
-  Develop and maintain a water sub metering system to identify and reduce leaks

5. Scope

This plan is applicable to all members of staff, students and contractors working within the capacity of the university. The objectives will be met through the implementation of the tasks within the a plan.

6. Water Consumption

Water consumption is measured through mains incoming billing meters within the campuses and separate estate. The water data is monitored by the sustainability team and to be reviewed annually to ensure abnormal consumption is identified.

The water consumption baselines have been set in line with the formation of the university body in 2012/13 academic year. The total consumption baseline is 49,611m³ and the individual consumption rate baseline of FTE students and staff is 5.46m³.¹

Adoption of a submetering system across the estate will allow for quicker and more accurate leak detection, both within and external to buildings and further baseline values to be established at departmental and building level.

Reducing wastage is just one tool to reduce consumption. During this plan the sustainability team will work closely with stakeholders listed in this document on a range of engagement activities, technological interventions and reduction through estate rationalisation.

¹ This figure is based on 9086 staff & students in Lampeter, Carmarthen, Swansea and Birmingham in the 2012/2013 academic year.

7. Roles and Responsibilities

Water Usage	Responsible Officer(s)	Key Stakeholders
Accommodation	Accommodation Manager	Campus Managers, Students, Domestic Team, Site Operative Team, Grounds Team
Catering Outlets	Catering and Conference Manager	Campus Managers, Domestic Team, Site Operative Team, Customers
Grounds and Landscaping	Grounds Manager, Head of Estate Strategy and Soft FM	Grounds Team, Site Operative Team
Campus Wide	Sustainability Team, Head of Estate Strategy and Soft FM	All Staff and Students
Leaks	Maintenance Manager	Maintenance and Compliance Team

8. SMART Targets

In order to proactively manage all SMART (Specific, Measurable, Achievable, Relevant and Time-bound) targets for Sustainability related Management Plans the targets relating to this plan are held in the “UWTSD Sustainability SMART targets” document.

This document contains a responsible person, stakeholders, reporting mechanism and actions for each year of this plan. These are aligned to this plan and the Welsh Government Public Sector Decarbonisation targets. They represent a mix of practical infrastructure changes, behavioural shifts and engagement strategies to ensure a systematic approach to reducing water consumption across the UWTSD estate with the overall target of reducing water consumption to less than 3.5m³ per FTE by 2030.

Targets can be found here:

https://uowtsd.sharepoint.com/teams/Sustainability_7fuztl_GRP/Shared%20Documents/General/Policy%20&%20Strategy/Strategy%202025-2030/UWTSD_SMART_Targets.xlsx

9. Monitoring and Reporting

Monitoring of carbon performance will operate within the governance framework established under 'Strategic Priority 6: Monitoring and Reporting' of the UWTSD Group Environmental Sustainability Strategy.

Oversight will follow the Group's three-line assurance model:

Operational Oversight

-  Head of Sustainability and Environment
-  Director of Estates
-  Sustainability Steering Group (SSG)
-  Integration into Sustainability Action Plan
-  Termly KPI reporting

Governance Oversight

-  Resources and Performance Committee
-  University Council

External Assurance

-  Green Dragon Level 5 Environmental Management System
-  Annual external audit

Progress will be:

-  Reported annually through the UWTSD Sustainability Report
-  Integrated into institutional KPI dashboards
-  Aligned where appropriate with recognised frameworks such as SBTi

10. Links to other policies and procedures

A series of Sustainability management plans have been developed for the 2025-2030 period:

-  Group Environmental Sustainability Strategy 25-30
-  Carbon Management Plan 25-30
-  Sustainability Engagement Action Plan 25-30
-  Sustainable Construction and Refurbishment Plan 25-30
-  Energy Management Plan 25-30
-  Sustainable Travel Plan 25-30
-  Waste Management Plan 25-30
-  Sustainable Food Plan 25-30
-  Biodiversity Action Plan 25-30

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