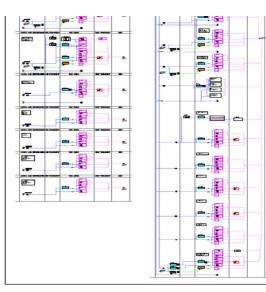
## **Water Stewardship Charter**



**Organisation Name** Site Location Charter Champion Senior Management Signature Date H91 TK33 Michael Curran Michael evin University of Galway 19th January 2023 Scope **Key Business Drivers Driver Type** Item **Priority** niversity of Galway is located in Galway City and has a population of 19,500 students and 2500 staff ( To raise awareness with staff, students and visitors of water as a critical obviously reduced with COVID-19). The campus is based on 250 acres, consisting of 97 buildings with a teaching Reputational and limited resource that must be used responsibly High OLLSCOIL NA GAILLIMHE To reduce water usage on campus by 10% by 2025 based on 2018 The campus is split into 4 distinct areas, Nuns Island, South Campus, North Campus and Dangan (Sports Fields) UNIVERSITY OF GALWAY Operational High utilise new technologies and methods to reduce water consumption on Materiality 3 our Laboratory's and Research labs. Reputational High University of Galway has a large Water network throughout the campus and numerous connections to the site To eliminate all unnecessary water usage on campus, to maintain and we have numerous water meters installed by Irish Water and internal manual meters feeding the buildings. We further improve the water usage reductions achieved on campus in the Financial High are updating are site Building Management System for Energy and Water, our energy partners have installed last period. new metering and we have built the new BMS system to integrate the new metering. The university is developing systems to reduce consupmption and this is highlighted in our startegy to reduce are 2019 baseline To eliminate the reliance of staff, students and visitors on single use by 10% by 2025. COVID-19 RESTRICTED WATER USAGE AND THEREFORE COMPARISON ARE NOT CORRECT plastics for water consumption Reputational **Resource Profile Analysis** Monitoring **Site KPIs & Targets** True Cost of Water: he following are a list of the existing Water Meters linked to the Water Conservation and Leadership is high on the University of Galway University of Galway currently pay on our large volume sites Jniversity of Galway Sustainable strategy document with targets set for 2025, this is also Read Date The following costs: WPRN No.Address highlighted in the soon to be published in the roadmap Carbon Plan 2020 23/03/2018 23:59 05/06/2018 10:1 05/06/2018 09:33 Water Supplied: €1.10 per m3 9831822Domestic Main, Newcastle Road Lower, Galway 2030 12/03/2018 17/05/2017 00:00 1415 12/03/2018 14:3 12/03/2018 14:24 21/03/2018 10:47 97.20 Water Removed: €1.00 per m3 9832883Life Cycle & SRB Building, Newcastle Road, Galway 06/12/2017 12:5 09/08/2017 00:00 4.34 26/04/2017 23:59 368:65 06/12/2017 12:07 02/06/2017 00:00 29/11/2017 8198.19 25/08/2017 00: 9832939Campus Innovation Centre, Newcastle Upper Galway SDG 6 and SDG7 30/08/2017 25/04/2017 00:0 04/08/2017 9278.371 9831823St. Anthony's, Newcastle Upper, Galway 09/08/2016 00:00 1521 15/02/2017 00:0 25/04/2017 00:00 g Key components to be checked: 26/04/2017 9257.625 14/02/2017 00:0 15/02/2017 00: 9831995Tank Main, Newcastle Upper, Galway Energy costs for pumps and equipment 15/02/2017 12823 02/11/2016 12631 03/08/2016 00: 02/11/2016 00:0 116 Man-Hour Costs 9832598Molecular Diagnostic Research, Unit 1, IDA Park, Galway 09/08/2016 10181 08/08/2016 00:00 2/04/2050000 2851 Cost of Disposal 9831776Dangan Sports Complex, IDA Business Park, Dangan Lower, 08/05/2016 11941 29/04/2015 00:00 1447 08/02/2016 00:0 03/02/2016 10744 08/11/2015 00:0 Regulatory Compliance 06/11/2015 11246 04/08/2015 00:00 18/08/2015 10014 04/08/2015 00:00 13 28/04/2015 00: 28/04/2015/00:00 92 28/04/2015 10797 Iniversity of Galway are employing two interims in 03/02/2015 12146 05/11/2014 00:00 08/08/2014 00:0 25.901 kWh 10.741 Watts 9832239Dept of Health Promotion, Distillery Road, Newcastle, Summer 2023 to carry out True Cost of Water on our 08/08/2014 12989 29/04/2014 12187 29/04/2014 00:00 12/02/2014 00:00 Yesterday's Water Usa 9832237Riverside Terrapin, Distllery Road, Newcastle, Galway 9832236Block T, Distillery Road, Newcastle, Galway 320722916 Distillery Road, Galway University of Galway BMS team and plumbing maintenance team record 9832238Martha Fox House, 4 Distillery Road, Lower Newcastle, the monthly water Volumes to compare this against bills issued by Irish Water, a spreadsheet 9832053University Road, Galway (Science Research place by Snipe is updated Avenue) By the plumbing services supervisor. This will be updated in the new ISO50001:2018 template and will be web based tool recording the manual The TRUE COST OF WATER at a point of 9832785Aula Maxima, College Road, Galway Meter readings, it will also be an action to update the meters on the right use is typically much greater than the amount owing on the Water Bill. 9832300Aula Maxima, College Road, Galway to Digital metering at a cost of €60k. 9832894Meter Oppisite Cathedral, Earls Island, Newcastle, Galway 9832420Meter No.1, Earls Island Newcastle, Galway 9831982Nuns Island, Galway, Galway 9831908IMI Road ( MRI) University Road, Galway 9832895IMI Road, Pedestrian Canal Path, University Road, Galway

Map













- WATERNOMICS Platform Apps
- Public Display Re. Water Consumption
- Interactive Signage at Water Meters
- Promote Education
- Water Aware Workshops / Seminars
- Notifcation of savings in plans
- Promote use of WATERNOMICS Data • Promote WATERNOMICS Platform for new Apps
- Water Consumption Awareness
- Gamification
- Engagement

Improve Operation

- · Installation of Metering
  - Water Network Information
  - Fault Identification Diagnosis

Promote Environmental Responsibility

- Promote use of Data
- Platform/Apps
- Newsletters / Seminars

> Central Solution	S
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	Action Plan								
Item	Action Description	Action Type	Aligned Business Driver	Impact/ Targets	Who	Next Step	Target Completion		
	To recognise water as a critical and limited resource by adopting a University of Galway Water Policy	Kaizen Event	Reputational	University of Galway Strategic plan sets out targets to be achieved by 2025 as part of the Climate Action Plan and Carbon Reduction – Scope 3 Water	-	Listed as startegic Goal in the Sustainability strategy	Q4 2025		
	To reduce, from a 2019 baseline, water usage in campus buildings by 10% by 2025	Kaizen Event	Operational		Buildings and Estates	Action plan to be developed as part of the	Q4 2025		
	Continue the programme of installing water metering and sub-metering on our largest water consumers.	Just Do It	Operational	,	Buildings and Estates	Ongoing as part of Register of Opportunities in	Q4 2025		
	By 2025 extend programme of measurement, analysis and efficiencies to all significant buildings on campus.	Kaizen Event	Operational		Buildings and Estates	ISO50001:2018 plan to be updated and verify all	Q4 2025		
	Continue programme of installing water-saving devices in laboratories, kitchens, workshops and WC facilities across the campus e.g. low flow taps, dual flush WC's, time control on urinal flushes and showers and low flow shower heads	Just Do It	Operational	, , , , , , , , , , , , , , , , , , , ,	Buildings and Estates	Monthly surveys and recording of all actions.	Q4 2025		
	Incorporate water usage reduction as a key project design component as part of new buildings and retrofits. Water efficient sanitary fittings; Rainwater harvesting systems and greywater recycling systems; Leak detection; Water sub metering; Presence detectors controlling the water supplies to washrooms; and Water efficient irrigation practices	A3 Project	Operational	Method (BREEAM) is a method for assessing how sustainable a new	Capital Works Team and Design Teams	Review of all Capital Projects and inspection of systems.	Q4 2025		
	Increase the awareness of staff, students and visitors of the importance of water as a critical resource that must be used responsibly.	Kaizen Event	Reputational	awareness days, it will be a requirement t encourage more awareness	Buildings and Estates, CUSP and Green	Present ideas at Water Forum and set ideas.	Q4 2025		
	Engage staff, students and visitors in responsible water usage and water consumption reduction at a building level and beyond by providing water consumption information and inviting inquiry and feedback	Kaizen Event	Operational	-1	Buildings and Estates, CUSP and Green	Present ideas at Water Forum and set ideas.	Q4 2025		
	Continue to lead and contribute to research activities in water resource management, water usage reduction, water supply and water treatment.	Kaizen Event	Regulatory	transportation, water sewage. SEAI Research award 2020 – Water	Dept of Engineering and MRI Institute	Learning and presentation to community and online	Q4 2025		
)	Use research led teaching and on-campus applied solutions to instil sustainable water practice in our future generations of water professionals.	Kaizen Event	Reputational	, ,	Buildings and Estates Water	Review of method for Live Demo site.	Q4 2025		
			Developed by Central Soli	itions I td					