



TU Dublin SDG 6: Clean Water & Sanitation

The vision for TU Dublin Strategic Intent 2030 is to *'Create a Better World, Together'*. In developing our TU Dublin strategy, and over the course of our conversations with over 2,500 stakeholders, we viewed the challenges facing us through the lens of the UN Sustainability Goals (SDGs). Some clear areas of focus emerged which resulted in shaping our plan to tackle our task through the following themes - People, Planet, Partnership and underpinned by the key SDG goal of 'Quality Education'. These pillars inform our approach to educational, research and engagement practices, ensuring that TU Dublin delivers real change, innovation and impact for society.

This is TU Dublin's third report on how the University has been addressing the SDGs. It includes examples of initiatives, events and project work that are having an impact across the 17 SDGs.

Year	Event
August 2022	Dr Alan Gilmer, is the lead researcher on the Fingal Water Project for TU Dublin. The Project tackles the challenges of pollution pressures in ponds and streams in this strategic local authority area of nearly 300,000 people in north County Dublin.
June 2022	'Where There Is No Engineer' competition , which is coordinated by the Development Technology in the Community (DTC) Research Group at TU Dublin, took place in June. Participants were encouraged to develop designs and schemes to improve community resilience under six core themes, one of which included 'Self-Supply Water & Sanitation'.
Quarter 1 2022	TU Dublin carried out a longitudinal study on water use at home as part of 'Dŵr Uisce' , a cross-border project funded by the European Regional Development Fund through the Ireland-Wales Cooperation programme. The project is investigating improving the long-term sustainability of water supply, treatment, and end-use in Ireland and Wales through the development of innovative technology platforms.

Ongoing 2022	TU Dublin has an open call for PhD researchers in the area of ' Smart Hot Water Controls ' – An assessment of how smart hot water controls, responding to excess wind, could provide free hot water to fuel-poor households to create a flexible citizen-owned, just energy system asset.
Ongoing	TU Dublin continues to contribute to RTE Brainstorm , the national broadcaster, that collaborates with third level institutions to highlight new ideas and insights relevant to what's happening in the world around us. An article recently published on SDG 6 was: -5 ways for us to value water in our daily lives
Ongoing	TU Dublin's <i>Civil & Structural Engineering Continued Professional Development (CPD) programme</i> includes a course on Water Resources and Quality Management
Ongoing	TU Dublin's <i>Mechanical & Design Engineering Continued Professional Development (CPD) programme</i> includes a course on Water Services Engineering (TU5009)
Ongoing	The Grangegorman Development Agency Master Plan Part D Environmental Sustainability provides for water retention strategies at TU Dublin's Grangegorman campus, such as swales and holding ponds, to reduce runoff into the city system.
Ongoing	The Water Innovation Research Centre (WIRC) in TU Dublin seeks to reduce the influence of poor water quality on public health by identifying specific areas of threat, by developing technologies for detecting, assessing, and minimizing the levels of biological and chemical pollutants in drinking water supplies, and by developing novel water monitoring, hygiene, and water treatment systems.