



TU Dublin SDG 7: Affordable & Clean Energy Progress Report 2021

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 second 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
Sept 2021	The new TU Dublin Grangegorman Campus welcomed over 10,000 students to its state of the art facilities over the course of the academic year 2020/2021. The construction, managed by GGDA, have followed the Grangegorman Master Plan incorporating a stringent environmental sustainability strategy including renewables energy and natural ventilation strategies.
Sept 2021	TU Dublin in partnership with Belfast Metropolitan College launched their new £1.12 million European digital construction project, ‘ARISE’ . ARISE’s mission is to support the twin transition of the construction sector and to contribute thereby to the European Recovery, and Resilience Plans 2021 -2027 by providing the construction sector workforce with digital and sustainable energy skills of the future, along with demand-side guidelines for marketable appreciation of skills and exploitation of benefits thereof.
July 2021	TU Dublin postdoctoral researcher is exploring TPV Systems aiming to recover heat being wasted .

March 2021	TU Dublin Green Week hosted an event on District Heating Networks, the first large-scale district heating network of its kind in Ireland. District heating is a network of highly-insulated pipes that delivers low-carbon heat from a central energy source to provide space heating and hot water to the buildings connected to the network, of which TU Dublin is part of.
March 2021	Students were invited to participate in a Green Campus poster competition with category winners in waste, energy, water, biodiversity, commuting, & inclusion.
Ongoing	In line with the government Climate Action Plan 2019 , TU Dublin's Energy Policy commits to delivering 30% emissions reduction by 2030 and to develop a roadmap to carbon neutrality by 2050.
Ongoing	Work continues on the TU Dublin Grangegorman campus to be carbon neutral by 2050, in accordance with the Grangegorman Sustainability Strategy (pg.11). From the beginning of the design phase in 2014 for this major new Dublin quarter, the Grangegorman Development Agency has worked with TU Dublin to implement building design, construction, and building use systems that minimize the carbon emitting systems of the campus.
Ongoing	TU Dublin's Climate Action Plan commits to reduce energy consumption and to transition to sustainable sources; improve energy efficiency by 50%; maximise the use of fuel types that cause least harm to the environment, including reducing the consumption of fossil fuels and increasing energy from sustainable sources.
Ongoing	TU Dublin Statement on Fossil Fuels was created to help address the challenges of climate change and sustainability and commits to invest in climate solutions, such as renewable energy, energy efficiency, sustainable agriculture, water efficiency.
Ongoing	TU Dublin's Sustainability Statement recognises its special role in helping to address the challenges of climate change and sustainability. It wishes to ensure that all students graduate from TU Dublin with a greater understanding of the sustainability challenges and possess the expertise and commitment to help find solutions for tomorrow's generations.
Ongoing	TU Dublin's ESHI (Environmental Sustainability and Health Institute) focuses on a range of research areas including Energy.
Ongoing	TU Dublin Hothouse facility assists start-ups that foster and support a low-carbon economy and technology.
Ongoing	TU Dublin is a member of SFI MaREI , a Centre for Energy, Climate and Marine research and innovation, coordinated by the Environmental Research Institute (ERI).
Ongoing	QualiBuild Ireland - Training in Low Energy Building Construction is a Train the Trainers programme developed to address the knowledge gap that exists in relation to low-energy buildings. It is funded by the European Commission coordinated by TU Dublin with other partners.