

**Public**

## Environmental and Social Data Sheet

### Overview

Project Name:	TCD Engineering, Energy and Environment Institute
Project Number:	2015-0654
Country:	Ireland
Project Description:	The project comprises the design, construction and equipping of three new buildings for Trinity College Dublin and the refurbishment of its Arts block. In addition, 300 new beds will be created at its Dartry student accommodation site, located within 5km to the south of the main campus. The project will provide modern state-of-the-art teaching and learning environments as well as new laboratories to continue research in the fields of engineering, energy, natural sciences, and computer science and statistics.
EIA required:	to be determined
Project included in Carbon Footprint Exercise:	no

### Environmental and Social Assessment

#### Environmental Assessment

The project comprises four key real estate developments and an upgrade to the main campus' electricity supply and distribution network. Three of the real estate developments will occur at the promoter's main campus in central Dublin, with the proposed new student accommodation development taking place at its Dartry site about 5km south of the main campus in the suburbs of the Irish capital.

Universities and research institutions of this kind are not specifically mentioned in the EIA Directive 2014/52/EU amending EU Directive 2011/92/EU, though the project is covered by Annex II of the Directive in relation to urban development. All projects are proposed for sites previously occupied by redundant facilities owned and operated by the promoter. Although the volume and form of each development will be different, there is no difference regarding the functional use from the previous use. Each development will be considered carefully through the normal development consent process in Ireland. The promoter has been active in its consultation with the competent authority, its students and staff as well as the public.

The promoter is following the same design principles as they used for their previous developments. Under these design principles, the new buildings will have a number of sustainable development features, which complements their expected high energy performance and BREEAM (Excellent) and LEED (Gold) certification. This also means the buildings are expected to be the equivalent of nearly zero energy buildings (NZEB).

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Additional features of the buildings include rainwater collection and storage for use of local landscaping features and to ameliorate discharge to local watercourses, solar photovoltaic panels and building features which seek to reduce solar gain thus reducing the need for internal cooling. In addition to the use of materials and insulation to provide comfortable internal environment, reducing energy use for heating and ventilation. Furthermore, the E3 building will showcase many of the technologies for its students as this will form part of the teaching in this building that will specialise in the engineering, environment and energy fields.

The promoter will be asked for copies of the BREEAM/LEED assessments at the design stage and at the completion stage as well as copies of the energy performance certificates (EPC) at completion and where available the Building Energy Rating (BER) assessments either at design or completion stage to verify the extent of the achievement of the NZEBs.

## Conclusions and Recommendations

The project is enabling Trinity College Dublin (TCD) to modernise and consolidate its campus infrastructure optimising administrative, research and academic spaces and facilities contributing to the enhancement of research and learning environments at its institution. Due to the use of new materials and technologies, the project will increase the overall energy efficiency of the TCD estate as the old buildings will be demolished.

The EIB will stipulate that a copy of the full EIA be made available for any of the buildings that trigger the need for an EIA. Furthermore, the EIB will request a copy of the energy performance certificates, the Building Energy Ratings certificates and the BREEAM/LEED assessments be provided on completion of all of the new construction sub-projects.

In light of the above, the overall environmental and social rating of the project is therefore considered to be acceptable for the Bank's financing.