

ACEI Awards 2018 – Citations for Winning Projects

Joint Winners: Winner - Category – OVERSEAS

M8/M73/M74 Motorway Improvements Project UK, RPS

The M8/M73/M74 Motorway improvements involved the completion of a motorway with junction upgrades and underpasses on Scotland's busiest road. Site conditions were constrained and live traffic of 100,000 movements per day had to be managed together along with working on a flood plain and controlling artesian ground water pressures. The design and execution were carried out excellently, with the minimum of disruption to daily users and provided an enhanced environment on completion.

High Density Prefabricated Data Centre, Amsterdam, Ethos Engineering

The high density prefabricated data centre in Amsterdam, Netherlands was constructed on an inadequate site utilising an existing industrial hub and an extension. In order to complete the electrical design a unique solution was required because of the lack of space and the tight programme timelines. This was achieved through off site fabrication and stacking. The outcome was very successful and has since been replicated on other sites.

Winner - Category – INNOVATION

Gamlestads Torg - Gothenburg, Gavin & Doherty Geosolutions

The Gamlestad Development in Gothenburg, Sweden comprised three buildings up to 18 stories high. These buildings were the highest in the area, bearing on an extremely soft soil and the site is very constrained with a railway, river and bridge as boundaries. The challenge was to predict lateral displacement on 300 concrete piles, 40 metres long. A unique solution was devised which correctly predicted the movements and included mitigation measures to manage any deviations.

Winner - Category – Civil – BRIDGES

Leamouth North Footbridge, O'Connor Sutton Cronin

Leamouth Pedestrian Bridge, London, is a single span steel Pratt style truss spanning 80m, inclined off the vertical and the deck cantilevers from one side of the bottom chord. The bridge can also be raised vertically to meet Port of London headroom requirements. The complex design along with the constrained site and access for the bridge has resulted in a very appropriate and resilient structure.

Winner - Category – Civil - MEDIUM

Limerick Smarter Travel Route, PUNCH Consulting Engineers

Limerick Smarter Travel Route is a shared walking and cycling facility located along the City Canal and the south bank of the River Shannon linking the city centre and Corbally to the University of Limerick. It incorporates the rehabilitation of the "old towpath" while at the same time introducing a new sustainable commuter link, particularly for university students and staff. A very high standard of design was achieved in its development.

Winner - Category – Civil – LARGE

Meenadreen Extension Windfarm, Jennings O'Donovan & Partners

The Meenadreen Wind Farm is Ireland's largest such facility and provides a critical and resilient link to the grid in the north west of Ireland. Located in an area of outstanding beauty in south east Donegal, it consists of 38 turbines, producing 98 MW of electricity. Considering the farm's density and visibility it has been designed with great sensitivity to the environment and the local community.