Outstanding Achievement Awards 2016

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I could not be more delighted to introduce the 2016 Outstanding Achievement Awards and to be able to continue this brilliant celebration of exemplary outcomes in civil engineering. 2016 has been a year of integration, learning and growth for CEEQUAL with new people and resources from BRE and BREEAM adding to an excellent ongoing CEEQUAL team. CEEQUAL has a strong and loyal following and we have really enjoyed meeting people in the CEEQUAL community across the UK and internationally. The dedication and enthusiasm has been infectious! I have been privileged to present CEEQUAL Awards to many inspiring projects over the past year and to celebrate their achievements with them; it is great to see that some of these are also OAA nominations.

2017 will be even better as we grow the scheme with more exciting projects and we continue the good work already in hand to develop the next version and take CEEQUAL forward. My thanks to everyone involved with CEEQUAL over the past year for your enthusiasm, dedication and hard work; you make CEEQUAL what it is!

It was a pleasure leading the judges through the wide range of projects we had in front of us. Having been involved in the initial setting up of CEEQUAL, I was particularly impressed by the range and size of projects and organisations now using CEEQUAL. In particular, it was satisfying to see teams using the framework to influence their design and construction processes for the better rather than simply as a ‘badge of honour’.

We had some difficult choices to make during our deliberations as a number of categories were well represented with excellent projects, each with its own individual merits. However, we did finally agree on the final list of deserving winners. A couple of common threads appear to run through a number of the winning entries: considering the whole life of the project – not just construction – and pushing innovation in materials, procedures or engagement to achieve a more sustainable outcome.

On a personal note, I was disappointed that we could not make an award for Ecology and Biodiversity. This is an area that I know the construction industry has made tremendous steps forward and has, in some instances, greatly changed public perception of our industry. Unfortunately, the judges did not consider that pinnacle best practice had been demonstrated this time.

I would like to encourage you to continue supporting CEEQUAL and to go the extra mile to make sure that the judges of the next Outstanding Achievement Awards have an even harder job than we did!
Introduction

Ian Nicholson
CEEQUAL TECHNICAL DIRECTOR

Our congratulations to all of the inspiring projects that were nominated for the 2016 Awards. The independent Judging Panel had the difficult but rewarding task of examining the excellent short-listed projects and selecting the very best. This year they have presented Outstanding Achievement Awards to exceptional projects in the following categories:

- Project Management
- Effects on Neighbours
- Material Use
- Waste Management
- Landscape
- Land Use
- Historic Environment
- Water Environment
- Water Resources
- Community and Stakeholder Relations
- Energy and Carbon
- Restoration of Contaminated Land

The Judges also gave special recognition to one of the nominated projects by presenting The Eric Hughes Award for Outstanding Contribution to Improving Sustainability.

About CEEQUAL

CEEQUAL is the evidence-based sustainability assessment, rating and awards scheme for civil engineering, infrastructure, landscaping and public realm projects. It promotes and celebrates high environmental and social performance in the specification, design, and construction of civil engineering works.

By providing a rigorous and comprehensive sustainability assessment and rating, CEEQUAL helps clients, designers and contractors to improve their projects. CEEQUAL has been successfully used on hundreds of projects in countries around the world.

CEEQUAL Awards are available for clients, designers, and contractors to publicly demonstrate the sustainability of their projects. Pinnacle best-practice is celebrated at the Outstanding Achievement Awards.

www.ceequal.com

CEEQUAL Outstanding Achievement Awards

The CEEQUAL Outstanding Achievement Awards recognise and acknowledge projects that demonstrate pinnacle best-practice performance in any area of a CEEQUAL assessment, irrespective of the total score and CEEQUAL Award achieved. They highlight some of the top sustainability achievements by civil engineering project teams in countries around the world.

www.ceequal.com/outstanding-achievement-awards/
About the Judges

Many thanks to our independent Panel of Judges who have undertaken the difficult task of selecting the Award winning and Highly Commended projects from the excellent and wide ranging nominations. Leading figures in the fields of civil engineering and sustainability, they have brought their considerable experience and expertise to the judging process.

PETER BRAITHWAITE
Chair of Judging Panel

With over 40 years of experience, predominantly in consultancy, Peter is a recognised expert in the sustainability and sustainable development of major infrastructure and regeneration projects.

He has developed and delivered sustainability strategies for numerous major infrastructure and built environment projects and programmes internationally, including the London 2012 Olympic Park. He is currently Chair of Sustainability West Midlands and Director of Engineering Sustainability at the University of Birmingham’s Centre for Resilience Research and Education.

PETER CROSLAND

Peter is a Chartered Civil Engineer and a Chartered Water & Environmental Manager with over 35 years’ experience of working on a range of projects in the UK and Internationally.

He has advised on multi-disciplinary projects including education, infrastructure, buildings (commercial and housing), sewerage, water treatment and water supply and the investigation and remediation of brownfield sites. Peter has worked predominately in engineering consultancies, but is now the National Civil Engineering Director for the Civil Engineering Contractors Association and advises on health, safety, environmental, water, technical, contractual and commercial issues.

Supporters

We would like to express our gratitude to Volvo Group and ICE for their support of the 2016 Outstanding Achievement Awards.

Volvo Group is one of the world’s leading manufacturers of trucks, buses, construction equipment, and drive systems for marine and industrial applications – and also provides complete solutions for financing and service.

“The Volvo Group is proud to support the 2016 CEEQUAL Outstanding Achievement Awards and congratulates all of this year’s shortlisted projects.”

Paul Fennessy, Business Solutions Director, Volvo Construction Equipment
ICE is one of the world’s leading civil engineering institutions and has existed for almost 200 years. As well as supporting its members to become qualified, ICE also encourage members to continue their professional development by providing a variety of civil engineering knowledge resources. These include industry-leading publications from ICE Publishing and tailored courses from ICE Training.

JOHN DORA
John is a Chartered Civil Engineer and a Fellow of three professional institutions: the Institution of Civil Engineers, the Permanent Way Institution, and the Royal Meteorological Society.

He has 35 years’ experience in flood defence and rail infrastructure, spanning policy to delivery, and now advises at government level. John is a member of the ICE’s Sustainability Guidance Panel and the UK Environment Agency’s Thames Region Flood and Coastal Committee. He chairs the International Standards Organisation’s ISO 14090 working group responsible for drafting the first ISO on climate change adaptation.

ANDREW SWAIN
Andy is a Chartered Environmentalist and sustainability professional. He started his career in the construction industry with BAM Nuttall before moving into the quarrying and building materials sector with Aggregate Industries and more recently Tarmac.

At Tarmac, he is responsible for the development, implementation and delivery of the corporate sustainability strategy. Andy has been actively involved in the development of CEEQUAL – first as an assessor, trialling one of the first assessments, and then as chair of the technical advisory group and a member of the CEEQUAL board.

TERRY FULLER
Terry is Chief Executive of CIWEM and is responsible for the delivery of the institution’s strategic aims, plus its services to members and the public interest.

He has nearly 30 years’ experience as a River and Coastal flood risk manager having delivered major projects in some of the world’s most challenging locations. Terry previously managed the rivers and coastal business for Jacobs Engineering and worked in their global business development group. Terry has always been active in helping to influence policy and research in flood risk management; he firmly believes that water should be managed by considering the entire water cycle and all of the demands placed on water.

JUDITH SYKES
Judith is a civil engineer with over 15 years’ experience in infrastructure projects in the UK and overseas, including Terminal 5, Channel Tunnel Rail Link, HS2, and the London and Rio Olympic developments.

She is a director of engineering consultants Expedition where she leads the infrastructure planning team. Judith has worked with government organisations, major developer clients and asset owners, and has particular expertise in city and urban resilience, sustainable infrastructure masterplanning and asset management. She is a commissioner for Milton Keynes and Editorial Chair of ICE Journal Engineering Sustainability.

And now, the winning and highly commended projects are...
CEEQUAL Outstanding Achievement Awards 2016

Project Management

WINNER

Luke’s Point Wastewater Pumping Station

Client: Northern Ireland Water
Designer: AECOM
Contractor: BSG Civil Engineering
CEEQUAL Excellent (80.9%)
Whole Team, Version 5, October 2015

The upgrading of Luke’s Point Wastewater Pumping Station to help alleviate pollution spills, particularly during heavy rainfall, is part of a programme of improvement works in the Bangor area of Northern Ireland. The scheme undertook a CEEQUAL Whole Project Assessment and scored a remarkable 97% in Project Management.

Northern Ireland Water, AECOM and BSG Civil Engineering worked as an integrated project team to successfully deliver this high profile scheme, demonstrating excellent communication and the environmental and social considerations that were key to the project’s success. All members of the project team bought into sustainability and value engineering as key themes.

Value engineering was one of the areas praised by the Judging Panel, who commented that the project, “Gives value engineering a good name”. The Panel considered that in this project the value engineering process had been done “properly” and used as a means of improving the outcomes, not as a means of reducing costs. They agreed that the project team had displayed strong leadership and made clear to all involved the links between processes and outcomes through clear objectives, a comprehensive training programme, and use of innovative techniques to monitor performance.

“Gives value engineering a good name.”

HIGHER COMMENDED

Spårväg City Line 7 Accessibility Upgrade – Part 1

Client: Trafikförvaltningen
Contractor: Skanska Sverige AB
CEEQUAL Excellent (86.4%)
Construction, Version 5, March 2015

Spårväg City is a tram line in central Stockholm, Line 7, which provides a regular service to South Djurgården, a very popular recreational area and tourist destination with several million visitors a year. This project has improved the accessibility of the whole of this very important connection, ensuring that all passengers have ready access to and from Line 7’s buses, trams and platforms.

Key to this success was the collaboration between the client and contractor which was embedded in the project from day 1. They worked closely together and with external stakeholders to find solutions to the access requirements which were environmentally and economically responsible, while taking full account of health and safety. The team also worked closely on solutions to improve resource efficiency and reduce carbon emissions. Regular meetings were held by the project management groups of each organisation. The outcomes of this project have been able to influence future tram line designs. Through this collaboration – and the embedding of CEEQUAL into the project management – environmental and sustainability issues have been prioritised.

This close collaboration was highlighted by the Judging Panel, along with the project’s demonstration of the positive contribution that project management can make to innovation and sustainability.

“The collaborative approach was the key to the success of this project.”
The busy market and associated restaurants and bars draw many visitors to what is also a highly residential area – so it was important to minimise disruption during the four-year construction period. The project had a rigorous Community Engagement and Management Plan to ensure the works were sympathetic to the local community, and their needs were represented for the entire duration of the project.

The Judging Panel acknowledged the complexity of this high profile project, with its congested market site and major tourist destination. They noted that the team had recognised the value of the place to its people, and found ways to both mitigate disruption and enhance the site. The use of architectural lighting on the new viaduct and Borough High Street Bridge, and new lighting for increased safety, for example, left a legacy of public space improvement.

Disruption mitigation included adjusting construction methods to reduce noise (no pile driving for example), working with other organisations to minimise road closures, and using a ‘green’ wall to minimise visual impact – a temporary feature that became permanent.

“Effects on Neighbours”

**WINNER**

**Thameslink Programme: Borough Viaduct**

Client: Network Rail  
Designers: Atkins / Jestico + Whiles  
Contractor: Skanska  

CEEQUAL Excellent (88.9%)  
Whole Project, Version 4, December 2013

The construction of a new rail route into London Bridge included building a viaduct over the historic Borough Market. This involved replacing the roof, temporarily relocating market stalls, undertaking demolition and construction in a working market, and building a 1200 tonne steel truss bridge over Borough High Street.

“A legacy of public space improvement.”

**HIGHLY COMMENDED**

**Crossrail: Western Running Tunnels, Bond Street & Tottenham Court Road SCL**

Client: Crossrail  
Designers: Arup, Atkins, Mott Macdonald, Jacobs  
Contractor: BAM Nuttall / Ferrovial / Keir Construction (BFK)  

CEEQUAL Excellent (90.1%)  
Whole Project, Version 4, July 2015

This BAM, Ferrovial, Kier (BFK) joint venture project on Crossrail comprised of the two 6.5 km western running tunnels between Royal Oak Portal and Farringdon Station along with the sprayed concrete lining station tunnels at Bond Street and Tottenham Court Road (TCR), the Fisher Street cross over tunnel, and the Northfleet Waste Transfer Station in Kent. Except for Northfleet, all works were carried out in and under central London.

A score of 92% for this section of the CEEQUAL assessment reflects both the environment that the works took place in and the diverse range of measures employed by BFK to ensure that effects on neighbours were minimised. Good construction management resulted in strong community relations which benefitted follow-on contractors and helped to allay the concerns of both local authorities and residents regarding the impacts of the operational phase of Crossrail.

The judges acknowledged that the team had introduced unique working practices which, coupled with rapid same-day reporting, enabled significantly reduced nuisance effects of the works and in particular enabled an adjacent medical centre and film studios to keep running.

“A range of unique practices utilised.”
Old Swan Household Waste Recycling Centre

Client: Merseyside Recycling and Waste Authority
Designer: Cheetham Hill Construction
Contractor: Cheetham Hill Construction
CEEQUAL Excellent (86.5%)
Whole Team, Version 5, March 2016

The Old Swan Household Waste Recycling Centre is a new facility for residents in Central Liverpool, who have previously not had this resource nearby. Built on a 0.9 hectare brownfield site, it is not a large development, but full consideration was made of the materials used, their sources, recycled content and the potential for recycling at end of life.

Care was taken to identify and use materials arising from clearing the site, and arrangements were made with a neighbouring site to also use their recycled material. Other required materials were sourced from suppliers in close proximity to the site. Once the facility reaches the end of its life, it is estimated that more than 95% of the material used in its development can be reused, either in its current form or processed into other materials.

The Judging Panel agreed that the team behind this project had made considerable effort to go the extra mile beyond just delivering a ‘standard’ recycling facility. They noted that the entire team collaborated and thought this way, taking a whole life approach that included the operation and maintenance of the facility. The team had shown that it was possible to raise the bar of achievement on smaller projects.

West Truro Retail Park

Client: Cornwall Council
Designer: Hydrock Consultants
Contractor: CORMAC Contracting
CEEQUAL Excellent (79.6%)
Construction, Version 5, April 2016

This project involved the improvement of a road junction at Threemilestone near Truro in Cornwall. It is part of a development opportunity for a new retail park, and includes constructing new footways, signalling a junction to an industrial estate, and improving associated drainage, utilities and surfacing.

The EU funding package for this brownfield regeneration project was conditional on it being able to deliver CEEQUAL Excellent standards in the construction elements. This presented an opportunity to use CEEQUAL as a tool to drive best practice for sustainable construction.

The Panel of Judges agreed that alignment of the project’s targets with CEEQUAL requirements assisted the team in achieving their outcomes. They highlighted the extensive recycling of materials from the site, and the use of track boards for temporary footpaths rather than removing topsoil. Notably, the successful use of a wholly recycled sub-base, with crushed concrete and recycled planings produced in-house, has led to a change in approach across the business, with recycled sub-base becoming standard practice.
**WINNER**

Grey to Green Phase 1 – Sheffield Riverside Business District

Client: Sheffield City Council
Contractor: North Midland Construction

CEEQUAL Very Good
Construction, Version 5, May 2016

The Grey to Green project is aiming to transform 1.2 km of redundant roads in Sheffield city centre, into new and attractive linear public spaces. It includes innovative perennial meadows, an interlinked Sustainable Urban Drainage System (SUDS), rain gardens, public art that explores local history, and high quality paved footways and street furniture.

This scheme constitutes one of the most ambitious retro-fit sustainable urban drainage systems in the country, with Phase 1 comprising about 0.5 km of the 1.2 km total.

The surface of the SUDS and other soft landscape areas has been used to create a meadow in the middle of the city centre, through low maintenance perennial planting of 40 new trees, 45,000 bulbs, 665 evergreen plants and 26,000 herbaceous plants. The result is a striking urban meadow that Sheffield City Council believes is unique in a UK city centre setting, and will add economic value to this area.

The Panel of Judges described the scheme as, “Very imaginative and inspiring, showing what can be achieved with careful thought”. They agreed that the proactive use of SUDS reflected a highly integrated approach to drainage, ecology, landscape and the people that use it – the mobility of pedestrians and cyclists, for example, has been greatly enhanced.

**“Imaginative and inspiring.”**

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**HIGHLY COMMENDED**

Huyton & Roby Capacity Scheme

Client: Network Rail
Designer: Mott MacDonald
Contractor: Buckingham Group

CEEQUAL Excellent (82.1%)
Whole Team, Version 5, November 2015

This project is one of a number of schemes, known collectively as the Northern Hub, helping to address capacity issues on the Manchester to Liverpool railway line. It included a range of improvements at Huyton and Roby railway stations, such as new platforms and improved passenger access.

“Designed for long-term flood resilience of the adjacent land.”

The Judging Panel acknowledged the team’s use of options that reduce land use impacts, despite the limited flexibility available to them on this site. The judges also noted the use of whole life thinking, with steps taken, for example, to prevent future ground contamination events as a result of the project and follow-up maintenance works. The works compound for the site has been developed with long-term use in mind, possibly as a construction hub for other nearby schemes. The Judging Panel highlighted the recognition of flood risk in critical infrastructure. The scheme has been designed for long-term flood resilience by preventing site runoff to adjacent land in 100 year return rainfall events, including a 20% allowance for climate change.

**“Designed for long-term flood resilience of the adjacent land.”**
Sympathetic design preserved archaeology and heritage.

The Truro Eastern Park and Ride project in Cornwall, which included constructing a 1000 space car parking facility with integrated terminus built to BREEAM ‘Excellent’ standards, is part of Truro’s strategy to increase travel choice, enhance capacity and change travel behaviour.

With the land known to have been enclosed and farmed since the Bronze Age, CORMAC Contracting worked with Cornwall Council to identify and protect the site’s historic and natural environment. The Construction Environmental Management Plan was structured using CEEQUAL headings to focus all site personnel on the archaeological priorities. A watching brief ensured that the wealth of archaeological features, including a rare Neolithic enclosure, were discovered, excavated and recorded. The methods of topsoil strip, for example, were changed to limit danger to potential finds by using 360 degree excavators instead of bulldozers.

The Judging Panel commended the project team, not only for the successful investigation and preservation of rare archaeological features using CEEQUAL as a framework, but also for its extensive programme of communicating the archaeological findings to the public.
The A32 Cherrymount Link project in Enniskillen, Northern Ireland, involved the construction of a two lane, 2.1 km carriageway linking the north and east of Enniskillen and bypassing the town centre.

A crannog (an ancient fortified dwelling in a lake or marsh) was known to be within the A32 Cherrymount site, but its exact location was only revealed when water covering it in a bog area was removed. An initial archaeological investigation found it to be rich in artefacts, potentially indicating a settlement dating back thousands of years. A full controlled excavation then commenced, the first on a crannog in Northern Ireland.

This resulted in McLaughlin & Harvey/PT McWilliams setting up a separate enclosed site for the archaeologists. The road construction programme was delayed and mechanical assistance provided. The road structure in this area was then fully redesigned to accommodate the excavation, and completion of this section was paused for around five months to accommodate the dig’s timescale.

The judges commended the project team on their approach to the rare and significant finds. They were impressed by the lengths the team went to, not only to preserve a nationally significant artefact but also to support the wide dissemination of the findings to schools and the wider public.

“The judges commended the project team on their approach to the rare and significant finds. They were impressed by the lengths the team went to, not only to preserve a nationally significant artefact but also to support the wide dissemination of the findings to schools and the wider public.”
Grey to Green Phase 1 – Sheffield Riverside Business District

Client: Sheffield City Council
Contractor: North Midland Construction

CEEQUAL Very Good
Construction, Version 5, May 2016

Grey to Green Phase 1 is a radical project by Sheffield City Council to transform redundant roads in the city centre into a network of sustainable drainage and rain gardens. Located in the Riverside Business District, the project has improved the city’s resilience to climate change, enhanced public space and connectivity with the rest of the city centre, and provided an attractive setting for existing and new investment and jobs.

Phase 1 comprises 0.5 km of the 1.2 km overall project. It takes the opportunity offered by the city centre’s reconfiguration to improve water management for both flood risk and water quality. Removing the highway surface in an impermeable city centre reduces the area generating surface runoff and provides the space to better manage the remaining areas. In Phase 1, newly created green infrastructure, modified as a series of swale cells, provides environments to capture, clean, infiltrate, move, and store water.

The sustainable drainage system (SUDS) techniques in this project have been little used in UK city centres, and this scheme is said to be the longest SUDS retrofitted to an urban setting. The judges agreed that retrofitting sustainable drainage constitutes best practice. “This is an important demonstration of what can be done in city centres,” they said, “where it can be easy for project teams to say that the circumstances are too difficult. Urban areas are often not seen as water environments, but they are – and increasingly will be as cities grow. This project has created such a water environment – instead of just a system of slot drains.”

“Exemplifies what can be achieved in city centres.”
The tunnelling, carried out with mix shield tunnel boring machines (TBMs), was located in the chalk layer and required extensive dewatering. It was not possible to put all the water abstracted back into the ground, so rather than discharge it into the sewer system, the site team implemented a scheme to use the surplus groundwater – saving over 2 million litres of potable water a week.

This water was used in two important tunnel processes. The first was in the mixing of the grout continuously injected through the tunnel rings as the TBMs advanced. The second was for mixing with bentonite powder, which was then pumped under pressure to the TBMs’ cutting faces to help stabilise the tunnel face. The use of groundwater for these processes is new and innovative practice.

The judges were impressed by the innovative use of abstracted groundwater, the effectiveness of which has been proven in this project and the techniques passed on to other projects. They noted that, among other important environmental benefits, this had reduced the supply pressures on potable water in a highly populated area.

“Innovations proven and passed on to other projects.”
**WINNER**

**OASIS Project**

Client: Fermanagh and Omagh District Council  
Designer: McAdam Design  
Contractor: FP McCann  
CEEQUAL Excellent (75.0%)  
Whole Project, Version 4, July 2015

The OASIS project in Omagh, Northern Ireland, has created a riverside pedestrian and cycle path along the banks of the Strule River, constructed a new plaza, linked across the Strule River with a new pedestrian/cycle bridge, and created an elevated walkway into Omagh Town centre.

The project aims to enhance the physical and psychological links between disparate communities in Omagh Town. It will provide safe, neutral, shared open spaces that increase opportunities for interaction through work and recreation, reclaiming underused and unwelcoming spaces and previously inaccessible lands within Omagh Town.

The project has successfully joined the town up logistically and reduced the need for car travel. It segregates traffic and pedestrians, encourages trade in the town and provides green spaces. The local community, school children and companies were involved from the project’s construction to its finishing touches.

The Judging Panel described this project as having a “great concept” with the potential to really make a difference. “This scheme has made a big statement on how to bring communities together – it is a landmark in the development of community interaction,” said Panel members. “All sections of the community and stakeholder groups were engaged in all aspects of the project, from development to delivery.”

“A landmark in community interaction.”

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**HIGHLY COMMENDED**

**Old Swan Household Waste Recycling Centre**

Client: Merseyside Recycling and Waste Authority  
Designer: Cheetham Hill Construction  
Contractor: Cheetham Hill Construction  
CEEQUAL Excellent (86.5%)  
Whole Team, Version 5, March 2016

The Old Swan Household Waste Recycling Centre (HWRC) is a new facility, built on a 0.9 hectare brownfield site, for residents in Central Liverpool who have not previously had this resource nearby.

“The team have really demonstrated what can be achieved by a small project.”

The Project Team worked on a detailed local community engagement programme involving a range of activities with local residents, businesses, statutory bodies, environmental groups and road users, all of whom helped to shape the initial project.

A number of initiatives to encourage further community involvement followed the start of construction. These included working with a local charity (Merseyside Disability Federation) and experts to enhance the experience of the HWRC for people with disabilities. A local artist helped the Team to set up the ‘Big Mosaic Challenge’ in which residents used broken ceramic pieces to create a mosaic swan. And among other activities, a time capsule made by the local Brownies was buried at the site.

The Judges commended the project team for the range of community engagement activities undertaken. These types of activities are often overlooked on relatively small projects such as Old Swan.
The 34.35 MW-rated Athea Wind Farm occupies about 256 hectares, primarily of blanket bog peatland, in County Limerick, Ireland. The project comprised constructing 16 turbines and associated infrastructure, demolishing three existing reinforced concrete turbine foundations and the upgrading of the turbine component transport route from Foynes.

This was the first wind farm project in Ireland to achieve a CEEQUAL Award, and only the second ever project in the country to gain this accolade. As part of the assessment a report was prepared on the total greenhouse gas emissions (GHG) from the construction operations on the project.

The findings indicated that there will be a carbon payback period of just 2.69 years, as a result of the mitigation measures employed at planning, design and construction phases. These included the purchase of 2.88 hectares of previously unforested land in County Galway, on which to plant trees that will offset those removed at Athea.

The judges praised the robust process of quantifying and benchmarking emissions for the whole project saying, “This is the nature of data collection that is needed to enable benchmarking to be established”. They complimented the team in taking a robust and quantified approach to carbon emissions during planning, design and construction and not solely relying on the energy generated from wind to demonstrate a low carbon development.

The Harbour Way Scheme comprises a 4.8km dual carriageway with associated infrastructure and landscaping embankment. The road is the final stage of a road improvement scheme in the Welsh town of Port Talbot.

The route of the new road passes through areas that were previously used in ways likely to cause contamination. Site investigations and risk assessments highlighted the need to remediate shallow soils that were significantly contaminated with, among other things, high levels of naphthalene. A remediation options appraisal found that stabilising and solidifying the contaminated soils was the most sustainable and cost-effective treatment for the site.

All of the contaminated soils, including around 6,000m³ of naphthalene contaminated soils, were treated and retained with no material being disposed of offsite. Naphthalene is highly odorous and noxious – to mitigate nuisance and protect the health of site workers and neighbouring residents, extensive odour monitoring was undertaken.

The Panel of Judges agreed that this project has successfully demonstrated a remediation strategy that balances environmental and economic issues, and has enabled the successful reuse of contaminated materials.

**Athea Wind Farm**

**Client:** SSE Renewables  
**Contractor:** Roadbridge  
**CEEQUAL Excellent (92.0%)**  
**Construction, Version 4, May 2014**

**“Robust data collection and benchmarking of emissions.”**

**Harbour Way Project**

**Client:** Neath Port Talbot County Borough Council  
**Designer:** Neath Port Talbot County Borough Council / Arup  
**Contractor:** Costain  
**CEEQUAL Excellent (87.9%)**  
**Whole Project, Version 4, October 2013**

**“Sound strategy that successfully balanced economic and environmental issues.”**
The 0.5km Phase 1 of Grey to Green has already received the CEEQUAL Outstanding Achievement Awards for Landscape (page 9) and for Water Environment (page 12). These Awards reflect the Panel of Judges’ admiration for a project that has brought together a great many aspects of sustainability. “It demonstrates,” they said, “how one intervention can enhance the experience of people using the city centre, reduce flood risk, improve water management, provide habitats for nature, boost the area’s economy and so much more. This would be a considerable achievement for a new development, but is all the more remarkable because Grey to Green is a retrofit project in a busy city centre.”

“This is a project,” the judges concluded, “that really makes a real difference – it is a landmark in urban landscape development.” They are not the only ones to have been impressed.

The scheme has raised a lot of national and local interest, with feedback being very positive – particularly as the planting continues to mature – from both the businesses and residents in the area, as well as the increasing number of visitors that come to see the scheme.

“I work in Sheffield’s Riverside Business District and walk everyday though the Grey to Green project. The wild flower scheme that has been planted on Bridge Street is beautiful...” one resident commented. “The design of the new space and planting scheme is one of the most inspiring I have seen in Sheffield.”

The design team was led by Sheffield City Council’s Landscape Design Team for the landscape and SUDS elements. Amey provided highway and lighting engineers, the University of Sheffield’s Landscape Department gave technical advice on the planning elements, Robert Bray Associates gave advice on the SUDS design and hydrological modelling, and Turner & Townsend provided the project management and quantity surveyor roles. Constructed by North Midland Construction.

“This project really makes a difference... and it’s a retrofit.”
The Eric Hughes Award is presented in honour of Eric Hughes BEng CEng FICE MCIWEM, the CEEQUAL Chairman from 2006 to 2013.

It reflects the huge debt owed to Eric for the invaluable guidance and support he gave to CEEQUAL, its Board, and Management Team over his time as chairman.

The award is made at the discretion of the Judging Panel and is awarded to one of the nominee projects that in their view has demonstrated an outstanding contribution to sustainability in civil engineering.
Twenty-two projects were shortlisted for the 2016 Outstanding Achievement Awards after a record number of nominations were received for the awards. The shortlist highlights some of the top achieving projects using CEEQUAL in recent years.

- A32 Cherrymount Link Project
- Athea Wind Farm
- Ballygawley Water Flood Alleviation Scheme
- Colwyn Bay: Phase 1b – Promenade Enhancement Scheme
- Crossrail: Thames Tunnel
- Crossrail: Western Running Tunnels, plus Bond Street and Tottenham Court Road Station Tunnels
- Doncaster Southern Gateway: White Rose Way Improvement Scheme
- Grey to Green (Phase 1)
- Harbour Way Project
- Huyton & Roby Capacity Scheme
- Loughor Viaduct Replacement
- Lower Todmorden Flood Alleviation Scheme (Phase 3)
- Luke’s Point Wastewater Pumping Station
- Meadowhead & Stevenston UID Scheme – Work Package 6
- OASIS Project
- Old Swan Household Waste Recycling Centre
- Ravenhead Household Waste Recycling Centre
- Spårväg City Line 7 Accessibility Upgrade – Part 1
- St Peter’s Square Public Realm
- Thameslink Programme: Borough Viaduct
- Truro Eastern Park and Ride
- West Truro Retail Park
Why use CEEQUAL?

- Reputation-building and good PR – including delivery of the participants’ environmental, sustainability and/or corporate social responsibility policies.

- Improvements to projects and maintenance work, and implementation of best practice – ranging from whole-life costing, waste minimisation, resource efficiency (materials, water, energy), to reducing complaints and environmental incidents.

- Demonstrating commitment to the sustainability agenda – to clients, within the team and the organisations involved, and to the industry as a whole.

- Enhanced team spirit – developing a positive “we must score well here” attitude and rewarding project or contract teams that have “gone the extra mile”.

- Cost savings – projects have reported cost savings through the use of the CEEQUAL Scheme. One project team reported their project cost 3.3% (£5 million) less than originally planned due in part to the use of CEEQUAL.

“Improving sustainability”