

TRANSFORM

Environment ●
Economy ●
Society ●

FOR ENVIRONMENT AND SUSTAINABILITY PROFESSIONALS

September 2019
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THAT

Can we stop the ocean claiming
our coastal towns and villages?

PLUS

Talk of the town Hugh Ellis on planning's capacity for transformation

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New tricks The teachers putting climate change on the curriculum

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TIM BALCON, CEO OF IEMA

Credit where credit is due

Within the current political climate, we hear a lot about what isn't being done with regard to the environment and climate change, and this difficult truth is being received with a lot of negativity. At IEMA, we work hard to ensure that our members, working in various sectors around the world, are not just properly equipped for the change they are bringing about, but recognised for it, too.

We believe it is just as important to highlight what is being done to combat climate change as to critique what is *not* being done. We want to celebrate the role our members play in driving change. For this reason, IEMA is holding its Sustainability Impact Awards in London this month, celebrating all those organisations and individuals that are carrying out inspiring and game-changing actions. At a time of climate volatility and environmental degradation, the entries we received for the awards have been superb; it's clear these people are working to change things.

The categories were designed to reflect a cross-section of those in the sustainability industry who are contributing to expert practices and award-worthy work. I had the pleasure of being on the panel of judges for the awards, seeing the vast range and scope of people's expertise and contributions – something I go into in more detail in this issue of *Transform*.

The upcoming global climate strikes that will be taking place this month demonstrate an alignment between the general public, demanding change through protest, and those who are bringing about that change within their sectors and career positions. At a time of change within our government, which wants to work towards a net-zero emissions target, it is an exciting time to be working within the environment and sustainability profession – demanding change takes place.

"We believe it is just as important to highlight what is being done to combat climate change as to critique what is *not* being done"



IEMA Transforming the world to sustainability

IEMA is the professional body for everyone working in environment and sustainability. We provide resources and tools, research and knowledge sharing along with high quality formal training and qualifications to meet the real-world needs of our members. We believe that together we're positively changing attitudes to sustainability as a progressive force for good. Together we're transforming the world to sustainability.

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WEATHER EVENTS

Western floods highlight critical infrastructure risks

The unprecedented flooding events seen around the world this year are likely to become more frequent as a result of climate change, and western infrastructure is unable to cope.

Around half a million acres of land have been underwater in Mississippi for five months – longer than ever before – and similar scenes can be seen across huge swathes of the US Midwest and Southeast.

Over the border, Justin Trudeau has admitted that urgent action is needed to boost climate preparedness after record flood evacuations took place in eastern Canada earlier in the year.

Meanwhile, the near-collapse of the Whaley Bridge dam in Derbyshire was among the most serious flood risks observed in England for years, with the emergency response team critical in averting disaster.

"But as the climate changes we won't be able to rely solely on emergency response to cope with extreme weather

impacts," the UK's Committee on Climate Change (CCC) warned.

"The government has a National Adaptation Programme but it is inadequate – we must do more to prepare for climate change while tackling its fossil-fuelled causes."

The Associated Press identified \$1.2bn in damage to US roads, bridges, buildings and other infrastructure in 24 states as a result of floods and storms in the first half of this year. This followed the wettest 12-month period in US history, with most the affected infrastructure built for the climate of the 20th century rather than today's more volatile one.

But a recent study by Climate Central found that developers are failing to heed the warnings, with some states building new homes fastest in flood-prone areas, including Mississippi.

In Canada, two '100-year floods' in 2017 and 2019 have climate preparedness experts worried. Emergencies were announced in

Montreal and Ottawa this year, and flooding is now more costly than fire or theft for property owners. "This is one of the most obvious manifestations of a changing climate," said Canada's public safety minister, Ralph Goodale. "Unstable weather conditions dump years worth of moisture in a day or two. It causes enormous damage to public infrastructure."

Western governments have increased their flood defence spending and relief efforts this year, but conservationist Allison Hanes warned that recent events could now be the "new normal".

"Our cities, communities, villages, hamlets, neighbourhoods, rural areas, highways, roads, bridges, dams, and of course people's homes, are being inundated," she wrote in the *Montreal Gazette*.

"We are in uncharted waters. But the really scary part is that this could be the new normal – a terrifying new reality that has long been foretold, but is now upon us."



PHOTOGRAPHY: PA



BUSINESSWATCH



M&S tells public to bring own containers

Marks & Spencer will offer a 25p discount to customers who bring a reusable container to its UK shops, in an effort to cut single-use packaging.

The scheme will be available at M&S's Market Place counters, which sell food-to-go meals to more than 70,000 people every week. The sector is forecast to grow 26.4% by 2024.

The supermarket chain already offers 25p discounts to customers who bring reusable cups for hot drinks, and will sell clip storage containers for £4 to help support the new initiative.

🔗 bit.ly/2Z0Pnn4



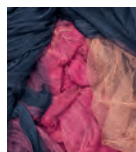
Ørsted cars to go 100% electric

Danish energy company Ørsted is to phase out petrol vehicles from 2021, and says that its car fleet will be 100% electric by 2025.

The firm will also install and upgrade electric charging points and infrastructure at its largest offices, and continue to work with car-sharing companies that use clean vehicles.

"Ørsted is showing how large businesses can deliver the dream of truly clean transport in a matter of years, not decades," said Luke Herbert, director at the Climate Group.

🔗 bit.ly/2N35JFp



Burberry uses old fishing nets for clothes

Fashion giant Burberry has launched a new line of clothes crafted with Econyl, a sustainable nylon made from regenerated fishing nets, fabric scraps and industrial plastic.

The range includes a reinvention of Burberry's lightweight car coat, and is just one of 50 supply chain disruptions the brand is making to create a more circular fashion sector.

"We know our industry can play a key role in building a more sustainable future through science and innovation," said Pam Batty, Burberry's corporate responsibility vice president.

🔗 bit.ly/2KG60eE

FOSSIL FUELS

Court ruling could spell the end for Poland's 'last coal plant'

Poland's last planned coal plant may no longer go ahead after a court ruled that its construction was "legally invalid" following concerns that the project poses major financial risks.

Doubts have been raised over the financial viability of the €1.2bn Ostrołęka C coal plant amid soaring carbon prices and plummeting renewable energy costs. But the project's energy firm co-owner, Enea, has been pushing ahead, leading to "serious concerns" among shareholders.

Climate lawyers filed a shareholder lawsuit against Enea, and a district court in Poznań has ruled that the company resolution authorising construction was not legally valid.



"This is an excellent result for Enea's shareholders and for the climate," said ClientEarth lawyer Peter Barnett. "The plant is a stranded asset in the making."

The project still lacks around €690m in financing, and will face financial penalties for failing to deliver the electricity it has committed to on time. Its other co-owner, Energa, has admitted that "the scale of the investment poses a significant challenge to the closure of its financing".

ClientEarth said that major Polish energy firms have since started looking to alternative power sources, such as wind. "Enea and Energa need to look at what the future of energy is in Poland," said Marcin Stoczkiewicz, head of ClientEarth Poland.

INDUSTRY

Cement industry told to set 2050 net zero emissions goal



A group of investors with more than \$2trn in assets under management has demanded the European cement industry achieve net zero emissions no later than 2050. The investors, including BNP Paribas Asset Management and Aberdeen Standard Investments, also called on the sector to report in line with the Task Force on Climate-related Financial Disclosures.

The demands were sent in letters to CRH, LafargeHolcim, HeidelbergCement and Saint-Gobain, along with the steps most applicable to each of the building material companies. Cement is the source of 7% of global man-made CO₂ emissions.

Stephanie Pfeifer, CEO of the Institutional Investors Group on Climate Change, which convened the investors, said that decarbonisation is "business-

critical issue" for the industry and that delay is not an option. "The cement sector needs to get ahead of the profound transformation their sector faces by addressing barriers to decarbonisation in the short to medium-term if companies are to secure their future," she added.

The investors called for a governance framework that assigns specific climate change responsibilities to board members, and for cement companies to engage with policymakers to ensure an orderly low-carbon transition.

"These investor expectations highlight good practice, and others in the sector are encouraged to follow their example to avoid the consequences of increased scrutiny from their shareholders," said RPMI Railpen manager Jocelyn Brown.



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AWARDS

IEMA Sustainability Impact Awards shortlist announced

By **Tim Balcon, IEMA CEO**

The IEMA Sustainability Impact Awards showcase the achievements of the organisations and individuals that are striving to meet our global sustainability standards. We are committed to supporting, encouraging and improving the confidence, performance and profile of everyone working in environment and sustainability-related jobs.

The awards honour those who are working to make our economy, society and environment future-proof, using innovation, collaboration and expert knowledge. We want to celebrate those using their expertise to challenge norms, influence governments, drive new kinds of

enterprise, inspire communities and show how to achieve measurable change on a global scale.

There are 16 categories for organisations and three for individuals. Organisations of all sizes and from all sectors were eligible to enter: from sole traders to multinationals, private enterprise to public sector. The categories were designed to reflect a cross-section of those working in the sustainability industry, contributing to expert practices and award-worthy work.

I had the pleasure of being on the panel of judges, and was impressed by the sheer number of entries, which shows how important these awards are to those in the sustainability sector. The range and

people's expertise has been phenomenal, and what stood out to me was that all of these entries have created change.

When you look at the current climate on an environmental level, as well as in a broader sense, it's clear we need professionals to create this change more than ever. This is our opportunity to recognise people with the necessary skills. Best of luck to all those shortlisted (see p33) for the awards, which are taking place on 20 September at The Brewery in London. With such a diverse range of talent in the running, it promises to be an event to remember; to avoid disappointment, book your ticket or table now at iemaawards.net

CONDUCT

It's time to 'click the code'

IEMA membership provides assurance of your competence through professional standards, strong governance and code of conduct. The standards and governance policies are reviewed each year and we want to make sure you're signed up to the latest Code of Professional Conduct.

The code is a framework that sets out how we behave as part of this profession, what others should expect from us and what we can ask of our fellow environment and sustainability professionals. It is backed up by rigorous complaints and discipline processes, so we can effectively investigate reports of unsuitable conduct and take action where necessary. Go to iema.net/

iema-code-of-professional-conduct today to explore the code in detail.

Abiding by the code is a mandatory requirement of all membership levels, so please ensure you have signed up. It's easy to renew your pledge:

Step 1: Go to iema.net and log in to MyIEMA.

Step 2: Follow the instructions on the on-screen banner to declare that you agree to abide by the new IEMA Code of Professional Conduct.

Step 3: That's it – you're done. You will need to state that you abide by the Code when you renew your membership each year, but until then you don't need to do anything further.

If you have any questions, get in touch at professionalstandards@iema.net

IEMA Code of Professional Conduct

As a member of IEMA I will demonstrate the highest professional standards to play my part in transforming the world to sustainability.

This means I will:

-  Demonstrate and advocate **high** standards of professional practice.
-  Apply my skills and experience to **protect and enhance** the environment, **improve** quality of life, and **contribute** to sustainability.
-  Advocate and apply high ethical standards, acting with **honesty, integrity and objectivity**.
-  Strive to ensure **equality of opportunity** and **respect diversity** in my professional activity.
-  Act in accordance with my **level of competence**.
-  Keep my **knowledge and skills current**, and continually develop my professional competence.
-  Uphold the **reputation** of the profession.

CONFERENCE

Communicating Climate Change conference

By Nick Blyth, IEMA policy and engagement lead

Many things must be taken into consideration for effective communication on climate change: the critical importance of framing; understanding the audience and their values; the balance between fear and more positive (solution-focused) messages; the importance of science, facts and timescales; finding relevance and considering images; adaptation messages, for example around the impacts we will experience; and branding, marketing and embedding climate change directly and indirectly to mainstream audiences.

In June, these and many other considerations were explored at a conference organised jointly by IEMA's Climate Change and Energy Network and the British Psychological Society's (BPS) Division of Occupational Psychology Going Green working group. Hosted by BPS in its London offices, more than 70 delegates filled the room, engaging and sharing their professional experiences.

Dr Jan Maskell, a member of both IEMA and the BPS, led proceedings, outlining the importance of framing and the use of language and narratives. An exercise with the audience unpicked how differing headlines can generate a range of responses. Dr Stuart Capstick from Cardiff University picked up the framing and narrative theme, discussing findings from two leading research projects, and Kieran Power at AECOM shared lessons on communicating the case for climate change adaptation.

After lunch we enjoyed Dr Matt Winning's exploration of how comedy can reach wider audiences, and Hannah Phang from Futerra shared examples of accessible climate change communication. Attendees left equipped with new and rediscovered insights to help them be better, more effective and more thoughtful climate change communicators. Presentations and video links are available at bit.ly/318buWj

TRADE

Incorporating environment into FTAs

By Martin Baxter, IEMA chief policy advisor

IEMA is part of a Defra stakeholder group looking at environmental aspects of the UK's future partnership with the EU and free trade agreements (FTAs) with the rest of the world. We are feeding the following issues into the process:

- Trade/cooperation agreements need to be underpinned by environmental protection and sustainable development. This is the basis on which UK's existing international trade is conducted through EU FTAs.
- The principles of non-regression and continual improvement of environmental outcomes should be included in future FTAs.
- Europe uses the CEN one-standard model. CEN standards are the basis on which many single-market standards operate, and are sometimes used in lieu of, or in support of, EU regulation. BSI has confirmed it will remain a member of CEN. This will be a challenge when it comes to deciding on EU vs US approaches.
- The UK should look to leverage its



environmental services/technologies into agreements, particularly given our leadership position in this area.

- Key environment/trade protections for certain issues need to be covered, including illegal timber/deforestation, conflict minerals, and trade of endangered wildlife.
- The government should explore how Article 6 of the Paris Agreement can be leveraged through FTAs.
- Trade agreements should be used to reinforce compliance with environmental agreements.
- Trade agreements that don't do environment well invariably get gridlocked – a useful reminder to other government departments.

EVENT

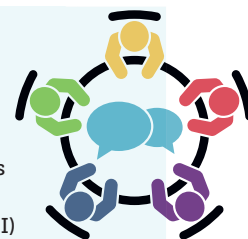
Let's talk: EIA scoping

IEMA members have asked for more impact assessment events and webinars, and collaboration with other membership institutions. A joint IEMA/Royal Town Planning Institute (RTPI) event in Manchester on 25 July delivered just that.

The event was organised by David Hoare, associate director at WSP and a member of the IEMA IA Steering Group and the North West Region IEMA Group. Bev Watson, RTPI's North West co-ordinator, was also instrumental.

The EIA Scoping process was the topic of the evening; participants were challenged to answer a series of questions, concluding with a call to arms: "How can consultants and determining authorities work together to improve the scoping process?" The results of the discussion will be written up into a paper and presented back to IEMA and RTPI members.

David is planning similar events on other issues where collaboration may be the key to unlocking difficult problems – keep an eye out for the next one.



NEW REGULATIONS

THE LATEST

● LEGISLATION ● GUIDANCE ● CONSULTATION

**27 JUNE 2019**

Climate change

The Climate Change Act 2008 (2050 Target Amendment) Order 2019 amends the Climate Change Act 2008 in order to make sure that the net UK carbon account for the year 2050 is at least 100% lower than the 1990 baseline.

cedr.ec/67x
**17 JULY 2019**

Renewable energy

The Renewable Heat Incentive Scheme and Domestic Renewable Heat Incentive Scheme (Amendment) Regulations 2019 make various changes to the legislation on both the Non-Domestic and Domestic Renewable Heat Incentive schemes.

cedr.ec/67v
**1 AUGUST 2019**

Biodiversity

The Countryside and Rights of Way Act 2000 (Review of Maps) (England) Regulations 2019 adjusts the time limits for when Natural England must review the conclusive maps showing all open country and registered common land in England.

cedr.ec/67w
**15 JULY 2019**

Environmental permitting

Defra has produced a series of guidance documents on the requirements for environmental permits for medium combustion plants and/or specified generators under the Environmental Permitting (England and Wales) Regulations 2016.

cedr.ec/67n
**15 JULY 2019**

Electric vehicles

Two consultations have been published by the Department for Transport on electric chargepoint smart technology regulations and the inclusion of electric vehicle chargepoints in new residential and non-residential buildings.

cedr.ec/67q
cedr.ec/67r
**18 JULY 2019**

Carbon emissions

The Department for Transport is calling for evidence to explore consumer understanding of carbon emissions, with a focus on the role that greater information and voluntary carbon offsetting can play in mitigating emissions from ticketed travel across all transport.

cedr.ec/67p
**19 JULY 2019**

Water conservation

Defra has published a new consultation on measures that could be introduced to reduce personal use of water. It is also asking for evidence to help set an ambitious but appropriate target for personal water use by 2050.

cedr.ec/67o
**22 JULY 2019**

Waste

A cross-departmental consultation is seeking evidence to help develop standards for biodegradable, compostable and bio-based plastics, and an understanding of their environmental impacts.

cedr.ec/67u


➤ Southern Water failed to make necessary investment, leading to equipment failure and wastewater spills

INCOURT

POLLUTION

Southern Water punished over 'shocking' wastewater spills

Southern Water has been hit with a record £126m punishment for spills of wastewater into the environment from its sewage plants, and for deliberately misreporting its performance.

Southern Water's failings included not making necessary investment, which led to equipment failures and wastewater spills. Water regulator Ofwat also found that the company manipulated its wastewater sampling process, meaning it misreported performance information about a number of sewage treatment sites. As a result, it avoided penalties under Ofwat's incentive regime. This is not the first time this has happened; in 2007, Ofwat fined the company £20.3m after its actions meant it could raise its prices by more than it should have done.

The Environment Agency has launched a criminal investigation, with court proceedings expected to commence soon. It stated: "We are pursuing our own criminal investigation into Southern Water due to suspected permit breaches at a number of its sites."

Southern Water will pay a fine of £3m, and £123m to customers, meaning a rebate to customers of at least £61 each.

Southern Water's current chief executive, Ian McAulay, commented: "We have clearly fallen far short of the expectations and trust placed in us by our wastewater customers and the wider communities we serve. We are fully committed to the fast pace of change delivered since 2017. There is a lot more work to do, but we're pleased that this proposal agreed with Ofwat enables us to fully make amends to our customers and regain their trust as quickly as possible."



WATER USE

Drones used against illegal abstractions

The Environment Agency is to use drones to gather information about illegal water abstractions in East Anglia's fenland.

It currently manages abstractions during dry weather by balancing the needs of the environment with the rights of water users. Officers carry out high visibility patrols throughout the irrigation season to make sure landowners and farmers aren't breaching their licence conditions and causing harm to the environment. During last year's heatwave, a number of licence holders failed to adhere to their conditions, and this year some illegal abstractions have already been discovered.

Andrew Chapman, environment planning specialist for the Environment Agency in East Anglia, commented: "This will be the first time we have ever used drones for this purpose. The majority of irrigators do operate within their licence conditions. However, last year a minority of farmers did not play by the rules and severely restricted other people's ability to irrigate their crops."

The drones will connect to a web portal so Agency staff can monitor the images and direct the device. If irrigators are found to be abstracting illegally, enforcement action will be taken in the form of written warnings, civil sanctions, referral to the Rural Payments Agency or prosecution.

Extra Agency officers will be used to warn licence holders at risk of water restrictions about possible shortages, and carry out inspections in riskier catchments where more intense abstraction takes place.



CASE LAW

Claim against farm development dismissed

In March 2019, a local resident challenged the planning authority's decision to grant approval for reserved matters relating to Hoplands Farm site development in Kent. Permission was granted in July 2017 for the development of up to 250 houses, plus associated buildings and 15 hectares of ecological parkland. In February 2019, the council granted approval for reserved matters relating to access, appearance, landscaping, layout and scale in respect of part of the Hoplands site to create 176 dwellings and for parkland.

The site is near Stodmarsh National Nature Reserve and falls within the zone for the Thanet Coast and Sandwich Bay SPA and Ramsar wetland site. The claimant argued the council had breached

Directive 92/43/EEC and the Habitats Regulations 2017 by failing to conduct a Habitats Regulation Assessment (HRA) before granting outline planning permission. The council conducted an HRA at the reserved matters stage. The council argued it had taken into account mitigation measures at initial screening stage and said the outline consent was valid unless and until quashed by a court.

The judge concluded the decision would have been the same even if a lawful appropriate

assessment had been conducted at outline permission stage, and that there would be no adverse impact on the designated sites.

The claimant also submitted that the council's HRA did not meet standards in respect of recreational pressure, lighting, loss of functionally-linked habitat and invasive species, and the failure to consider in-combination effects from the development. The judge

concluded the HRA was appropriate, and the council was entitled to rely upon endorsement from Natural England.



Hugh Ellis tells Huw Morris why he believes planning still has a good story to tell – despite austerity cuts, deregulation and a policy agenda biased towards housing

A TALE OF NEW CITIES

For years, Hugh Ellis has said the planning profession desperately needs to be “more Hollywood”.

Earlier in his career, the policy director of the Town and Country Planning Association (TCPA) was a scriptwriter for the UK’s longest-running police procedural *The Bill*, broadcast by ITV between 1984 and 2010. He also wrote the screenplay for *Summer*, an independent film starring Robert Carlyle. With this in mind, it makes sense to hear Ellis argue that the story is king.

“If you are going to keep your morale up, the heart of that is the story that planning has to tell. Originally, the story was ‘things are really crap for ordinary people, so why not design and transform the world for the better?’ That transformation is an obligation for us to achieve. That is a Hollywood narrative. It’s about transformation.”



Morale among planners is at almost rock bottom, particularly in England. The profession has taken a hammering from austerity cuts during the past decade; the National Audit Office reported last year that local authority spending on planning and development has fallen by more than 50% in real terms since 2010-11.

Alongside the cuts, the planning sector has faced numerous moves by the government to deregulate the system, extend permitted development rights that do not require permission, and direct the system towards growth – and housebuilding in particular. This has twisted planning's tradition of balancing economic, social and environmental factors within decisions and policies.

A structure in search of a purpose

The National Planning Policy Framework (NPPF), which informs and guides all planning decisions, policies and appeals, is a case in point. Ellis describes the first version, published in 2012, as a "disaster". Local authorities without a five-year supply of land for housing invariably had their decisions overturned in favour of developers. The revamped NPPF, unveiled last year, rolls back slightly by encouraging good design, but still lacks any definition of sustainable development in line with UN goals. This has trashed planning's legacy, according to Ellis.

"Planning's reputation as box ticking and full of traffic warden slang, with negative connotations for almost every sector, is not what we are. Planning has an immense record of understanding complexity of change from the economic, environmental and social points of view and being able to do amazing things. That's our legacy and where we come from.

"Planning is now a structure in search of a purpose like never before. I think the government would like us to be an algorithm for growth. That flawed proposition, which contradicts almost everything we know about sustainable development, is not what we are for. The government is trying to make a system do what it was never intended to do, which is let the market rip."

The big winners, judging by their multi-million-pound profits, have been developers in general – and volume housebuilders in particular, Ellis argues. The losers are everyone and everything else.

"It's probably the supreme example of regulatory capture in the past decade, where the future of the system has been determined by those it was set up to regulate," says Ellis. "They have won that battle, and as a result they have been able to make enormous amounts of money by doing the opposite of what the system was set out to do."

"THE PROCESS THE GOVERNMENT HAS CREATED IS OKAY IF YOU ENJOY WATCHING PAINT DRY AND BEING DEMORALISED BUT IT DOESN'T GET ANYWHERE NEAR PLANNING'S ORIGINAL AMBITION"

Ellis believes that planning should be the most effective form of environmental regulation available, handling up to 700,000 applications annually. However, it is more complex and demanding because "it is democratic and has to work with people". This is not widely appreciated, he says.

"As a creative force, many other professionals in the built environment simply regard planning as a box they stumble into, have a bad experience with, then stumble out of again. They don't regard it as the supremely democratic and creative force it should be.

"How we get back from there requires the government to provide a lead on some core issues. It's all very well for some of the other professions to look at planning and snigger 'look what's happened to you', but governments have targeted planning above all else because of its importance."

Garden cities and eco-towns

The government has seized on garden towns and villages as another tool for delivering housing growth. The concept, which emerged from the garden city movement of urban planning in the late 19th and early 20th centuries, demands well-planned, sustainable towns that combine the best elements of both the city and the countryside. It sets a very high bar for development standards, with Letchworth Garden City and Welwyn Garden City, both in Hertfordshire, regularly visited by professionals and the public alike. The TCPA is the most prominent advocate of the concept, which is a fundamental part of the organisation's heritage and one of UK planning's greatest achievements.

However, it is not without problems. The elephant in the room is New Labour's fateful eco-towns programme. This initiative was dogged by controversy, with many of the 50-plus bids to build eco-towns attacked as simply being previous proposals, some already rejected, that had been taken off the shelf and then greenwashed. Is it happening again?

"There is now much more interest within local government for the growth of large-scale sustainable communities," says Ellis. "There are many more who are trying to do the right thing and see medium to large-scale communities as delivering better standards. This is creating a bit of buzz, particularly because the government has a little bit of capacity funding for these places.

"That said, setting standards is a major issue. Some proposals are trying to do the right thing; with others, I'm not sure which of the garden city principles they relate to. It's a grey area, but the arguments about managing growth more sustainably through larger settlements is at least up there. That was completely off the table 10 years ago and even five years

ago, after the eco-towns disaster."

The greatest barrier to driving up development quality, he argues, is "the government not being sufficiently supportive or having a creative offer" on resources or standards. "The government provides no real guidance on what a garden town or village is. The only body that does is the TCPA, and our standards are very high."

The Hollywood moment

Today, Ellis likens planning to the scene in *Monty Python and the Holy Grail* in which the Black Knight loses all his limbs in a skirmish but still wants to fight on.

"There is the statutory planning system defined by government policies, and then there is the project called planning, which is about creating exciting, sustainable places. The process the government has created is okay if you enjoy watching paint dry and being demoralised, but it doesn't get anywhere near the original ambition.

"Planning reinforces social inequality when it fails, whether that be because of building regulations leading to events such as Grenfell Tower, or whether it's about terrible outcomes from permitted development, with people living in places without windows. These are the products of deregulation and non-planning.

"Planning should reflect on how you can make the human experience come to life. It's a general theory of everything. When it works well it is an integrated force designed to work with other professionals and link up to produce fantastic places. We can build a zero-carbon energy-positive city and we can build places that enhance people's life expectancy.

"If you go to other countries, you see planners working on these issues every day, but in this country planners have been



A MAN WITH A PLAN

- 1992 BA (Hons) in urban studies, University of Sheffield
- 1995 PhD in planning, University of Sheffield
- 1996 Lecturer in the Department for Regional and Town Planning, University of Sheffield
- 2000 Head of land use planning, Friends of the Earth
- 2009 Joins the Town and Country Planning Association, serving as chief planner, interim chief executive and, since February 2019, director of policy

"WHEN IT WORKS WELL, PLANNING IS AN INTEGRATED FORCE DESIGNED TO WORK WITH OTHER PROFESSIONALS AND LINK UP TO PRODUCE FANTASTIC PLACES"

targeted full-on by governments that do not believe in state action and only want to deregulate."

Despite the gloom, Ellis says he is now "more comfortable being a planner than I've ever felt, because I know how radical it can be and where it comes from". The sector and the profession still have a good story to tell.

"The narrative we have now is bureaucratic and legalistic. When you have challenges facing the east coast because of climate change, or cities because of air quality, or the post-industrial north because of poverty, it is

not the procedure and policy that fires people up – it is that Hollywood moment, when things are really badly and we're not giving in on this endeavour of creating great places.

"It's a good story to tell, but I'm not sure we've been telling good stories about planning. Tell me what the point of what we're doing is. Make me want to be a part of it. Make me get up at 4 o'clock in the morning when planning is a bloody mess and still have a burning ambition to make better places. Who is making that pitch? That's what we need." 

HUW MORRIS is a freelance journalist.

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The Corporate footprint Diaries

In 2014 I interviewed Nestlé's head of agriculture, Hans Jöhr. I prepared myself for the usual spiel: this is a huge corporation, but we care for our workers, we really do – look, we have images of smiling coffee and cocoa farmers to prove it. However, what followed was a particularly candid interview, especially as we discussed product certification.

"We cannot certify or label people out of poverty," he said. Some of the certification schemes, he explained, are excellent at marketing but struggle to show their long-lasting benefits on the ground. These schemes "cannot help farmers be better farmers *per se*. They don't consider quality. Some of them are cheating consumers." Jöhr didn't say how consumers are being cheated or point any fingers, but five years on, the questions haven't gone away.

Mondelez, the owner of Cadbury, set the ball rolling: in 2016, Fairtrade became a partner in the manufacturer's own Cocoa Life scheme, rather than the *de facto* seal of sustainable practice. Fairtrade, publicly at least, said it was delighted with the new way of working. Then Sainsbury's cut Fairtrade adrift, opting for an in-house programme called 'Fairly Traded' for its own-brand teas, which would apparently better suit its needs and those of the farmers.

In the palm oil industry, brands are increasingly disgruntled by a scheme to deliver Certified Sustainable Palm Oil (CSPO), and some have already jumped ship. "We don't believe there is such a thing as verifiably 'sustainable' palm oil available in the mass market," said Iceland's managing director last year, as the frozen food specialist banned palm oil from its own-label range.

Iceland is now replacing palm oil with other things – and likely bumping up its land-use and carbon footprints in the process, according to the WWF. Given that research has suggested CSPO's environmental benefits are broadly in line with non-CSPO and the scheme is moving at snail's pace towards deforestation-free palm oil, it's a case of when, not if, others follow Iceland's lead. As the Changing Markets Foundation put it, following detailed research into sustainability schemes in the palm oil, textile and fisheries sectors: "certification has lost its way" – so much so that these schemes often do little more than provide cover for companies that are destroying the environment.

Others untangling themselves from independent certification say they are doing this to secure supplies and protect the planet – the climate crisis means

producers need more support. Indeed, the changing climate is turbo-charging the spread of plant diseases; pathogenic fungi and oomycetes are moving polewards at a speed of 8km a year, and it is farmers in the developing world who will be left exposed. Fairtrade has raised the alarm, but its ability to deal with the issues is under scrutiny. "The challenges farmers face are increasingly complex, and we need to help," Sainsbury's said of its Fairly Traded tea scheme.

Can we trust them? Lumina Intelligence research published in July showed a continued shift to 'secretive' in-house sustainability schemes. Having unpicked the claims being made concerning 2,800 chocolate, ground coffee and tea products, the report's author Oliver Nieberg concluded that "a nebulous mesh of sustainable claims has emerged on products and online, leaving chocolate, coffee and tea consumers struggling to understand what is fair."

Research by TrueFootprint, which analyses data to tell businesses whether their sustainability projects make any impact, reinforces the point.

Among 24 major food companies directly employing more than 1.3 million people, and who source from millions

of farmers and smallholders, there are "virtually no material indicators for prosperity". What's more, statistics on greenhouse gas emissions tended to be reported as totals, with very few firms showing emissions as a ratio of their outputs – for example as a kilo of CO₂ per metric tonne of produce or \$1,000 of sales. The conclusion was that companies "do not do enough to show that they are delivering positive change".

Are companies being secretive on purpose? Or are they afraid to look? After all, a lot of money is being invested in both independent and in-house sustainability schemes. Whichever it is, the spotlight will only intensify. ➔

DAVID BURROWS is a freelance journalist.



"A NEBULOUS MESH OF SUSTAINABLE CLAIMS HAS EMERGED ON PRODUCTS AND ONLINE"





What do you think are the practical obstacles to biodiversity net gain?
To publish your views, contact features@iema_transform.com

The big question

What are the greatest barriers to biodiversity net gain working in practice?



TOM BUTTERWORTH

Biodiversity technical director, WSP

"The lack of resources within local authorities is significant"

Biodiversity net gain is a new method for assessing change in biodiversity, and a relatively new requirement for development. As a result, there are bound to be teething problems. Having said this, I don't think that there are any barriers – I see them as hurdles to get over, rather than things blocking our way.

Making biodiversity net gain mandatory for all new developments and standardising the method will create the clarity developers need. We have been told that the government's Environment Bill and the updated metric from Natural England will resolve these issues.

The lack of resources within local authorities is significant. Biodiversity net gain does not require a huge uplift in time from local authorities, but it does require someone with ecological expertise to check planning applications and oversee delivery. This expertise is needed for existing requirements, but many authorities do not have adequate access. Biodiversity net gain will add to this need.

Biodiversity net gain can often be delivered within the development site. Where this is not possible, an offset or compensation can be used. At the moment, most local planning authorities do not have a process for identifying and setting up these compensation measures; they need support and, potentially, start-up funding to help set up these processes.



DR JULIA BAKER CEnv CIEEM

Writing in a personal capacity

"Social impacts of biodiversity net gain are rarely accounted for"

People are intimately connected with nature and can suffer or benefit from biodiversity net gain. For example, people at a development site could lose a public park and live too far from the biodiversity offset to benefit. Conversely, residents of a development can enjoy enriched natural surroundings when biodiversity net gain is achieved within the housing footprint.

The problem is that the social impacts of biodiversity net gain are rarely accounted for and, when they are, it is not in a comprehensive way that safeguards or enhances wellbeing. We must ensure that protecting and enhancing biodiversity through development 'does no harm' to people. This is also an opportunity for infrastructure development to generate long-term benefits for the environment and society.

More than 50% of stakeholders mentioned social justice when asked about biodiversity offsetting as a conservation tool for England, so this is an issue we must address. International principles on the 'people' aspects of biodiversity net gain were published in 2018; these include avoiding negative social impacts, and designing, building and maintaining biodiversity net gain in ways that are fair and inclusive for people. There is a working group looking at how these 'people' principles can apply within the UK – watch out for updates!



NICK BLYTH

Policy and engagement lead, IEMA

"Net gain is not possible if irreplaceable habitats are impacted"

The government is committed to mandate net gains for biodiversity in the Environment Bill. In July, it published a formal response to the consultation, stating, for example, that a 10% net gain will be mandated, with a two-year transition period. There are some welcome points, including recognition of concerns about net gain driving habitat degradation prior to applications and a statement to address this.

Responses to the consultation expressed strong support for protecting irreplaceable habitat and protected sites and species, as well as for the mitigation hierarchy approach. These and many other concerns are all addressed in *Biodiversity net gain – Good practice principles for development*, developed by IEMA with the Chartered Institute of Ecology and Environmental Management and the Construction Industry Research and Information Association. This guidance is clear concerning claims of net gain and how it is not possible if irreplaceable habitats are impacted.

We anticipate with interest further government proposals on how these and other issues will be addressed, as well as government developments concerning the wider ambition of environmental net gain. What is clear is that professional sustainability and environmental skills will be central to good net gain outcomes.

The Welsh coastal village of Fairbourne, Gwynedd, was established a century ago, built on land reclaimed from the sea. By the middle of the next century, the sea is likely to take that land back. If the warnings about a one-metre sea level rise are accurate, Fairbourne's residents will become the UK's first climate refugees.

The village is low-lying, bounded by a shingle beach, with many bungalows and an elderly population. Add in rising seas, storm surges and shoreline movement and it is a prime candidate for 'decommissioning' by 2045 – too expensive and difficult to defend.

According to the Committee on Climate Change (CCC), England has a problem, too. Areas susceptible to coastal erosion include those with soft, eroding shores in the south and east, low-lying areas in East Anglia, Lincolnshire, parts of the south-west (including the Somerset Levels) and some of the Liverpool-Blackpool coast.

The Environment Agency has consulted on a flood strategy for England, arguing that public and private spending needs to be at least £1bn annually for the next 50 years. Government spending has been £2.6bn in the past six years.

Agency chair Emma Howard Boyd has said that government policy should ensure all publicly funded infrastructure is resilient to flooding and coastal change by 2050. "We can't win a war against water by building away climate change with high flood defences," she added. In some places, "the scale of the threat may

Time to

Wave goodbye?

Flood managers and planners must think the unthinkable and get ready to tell people to relocate because of rising sea levels, reports

Huw Morris

be so significant that recovery will not always be the best long-term solution" and communities would need help to "move out of harm's way". The Environment Agency thinks that at least 183km of coastline cannot be protected, and that more than 1,800km is at risk of erosion.

The scale of the problem

Flooding and coastal erosion has long been accepted as a challenge for the planning system, but nowhere near

the scale now anticipated. The decanting of whole communities will be part of its response. Combine that with the CCC's bleak warning that around 1.5m properties are at risk and the UK's strategic planning has a serious headache.

The National Flood Resilience Review says as many as 530 key infrastructure sites across England alone are vulnerable to flooding. The Environment Agency also calculates that for every person who suffers flooding, around 16 more are

"The scale of the threat may be so significant that recovery will not always be the best long-term solution"

affected by loss of services such as power, transport and telecommunications.

For its part, the CCC estimates 7,500km of road, 520km of railway line, 205,000ha of good or excellent farmland and 3,400ha of historic landfill sites are at greater risk of coastal flooding in any given year.

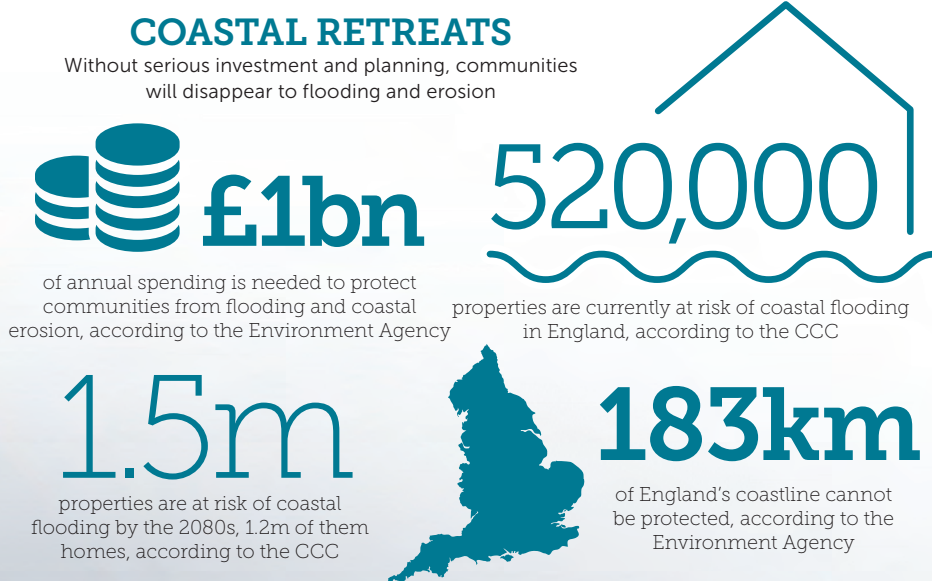
Coastal defences are also likely to be at risk of failure as sea levels rise. A rise of 0.5m is projected to make a further 20% of England's coastal defences vulnerable. That risk is greater if the current rates of salt marsh, sand dune and shingle beach deterioration continue.

Lack of communication

The response will require a major rethink of government planning policy, which is currently slanted towards growth and housing development. "What we haven't had from the government is clarity and oversight about how to resolve tensions between where growth occurs and where climate risks are," says Royal Town Planning Institute planning policy and networks manager James Harris. "There is a fragmented approach, by departments that don't speak to each other too much."

The Ministry of Housing, Communities and Local Government, which oversees planning, broadly leaves development to the market. "The planning system is there to respond to these signals and enable growth where the market sees fit," Harris adds. Defra, the Environment Agency and the CCC consider the areas under environmental pressure, which, by implication, are not suitable for growth.

"For a long time, those two bits of government haven't talked to each



other effectively, so you end up with local situations where these tensions play out – which is where planners will come in," Harris adds. "But we need top-down thinking and intervention by government. What is the view from government about where we can safely enable housing and economic growth, and where is it more sensible to be talking about the restoration of natural flood risk management areas and managed retreat?"

Confronting the crisis

This leaves local planning with two challenges: ensuring local plans are fit to face the crisis, and talking to communities about relocation options

and the risks of staying. CCC board member Julia King says councils must have honest discussions with people.

"Getting planners and other professionals to do outreach will be very important, because it's up to people to decide what risk they are comfortable living with," says Harris. "Unless it's somewhere with a good strategic plan in place that covers a wider area than a local authority, you are talking about the big relocation of communities and retirement of important infrastructure, and that requires a steer from central government. Planners can help with that, but decisions need to be taken higher up the chain." 

HUW MORRIS is a freelance journalist.

Blazing a trail

Wildlife presenter and biochemist **Liz Bonnin** talks to Kathryn Manning about plastic pollution and what puts a “fire in her belly” to protect biodiversity

In speaking to Liz Bonnin, the presenter of *Blue Planet Live* and *Drowning in Plastic*, one is immediately struck by her passion. She is no different to her onscreen persona in her genuine desire to defend the environment and its animals.

I start by congratulating her on receiving an honorary doctorate from the Royal Veterinary College earlier in the week. “I felt like a kid at Christmas,” she laughs. “Especially because it’s a whole 10 years since I graduated from there, so it really took me back.” Bonnin originally did a masters in wildlife biology; so what inspired her to become a biochemist and biologist in the first place?

“I’ve always been interested in a natural world,” she says. “I grew up in the South of France, and was outdoors all the time. I was interested in how all living things worked. I wanted to understand how little birds’ tiny hearts beat in their bodies and how their eyes moved.”

At the age of nine, Bonnin moved to Ireland. “In school, I was just drawn to the sciences. That led me to study biochemistry, to understand how everything worked, down to the chemical equations, atoms and molecules that make up all processes in living systems.”

She “randomly fell into television” following her biochemistry degree and got to love making



programmes. This led to an exciting time presenting on UK breakfast television and *Top of The Pops*. However, she missed science and decided to do her masters, later returning to TV programming with a renewed focus.

"You realise how the different paths you take end up leading you to where you're supposed to be," she says. "Ultimately, communicating my passion for science has become the dream job."

Bonnin helped to lead the way in the plastic waste debate with her 2018 documentary *Drowning in Plastic*. What attracts her to one environmental cause over another?

"My job is extending my education on a broader scale," she says. "For a whole year I focused on the plastic crisis, so I've got a real fire in my belly to continue communicating those issues until more is done. But I'm on another project now which has opened up my eyes to a whole new area, a documentary about the impact of meat production on the environment."

Battling big business

She's mentioned that the onus should not just be on the public when it comes to plastic waste. Does she ever feel under pressure when up against big industry?

"The response, particularly of the British and Scandinavian public, has been amazing, and of course it's not just me leading the charge. David Attenborough led the way, and Hugh Fearnley-Whittingstall did a great series as well.

"The rest of the world is pretty much oblivious to the problem. In the US, nobody really gives two hoots about plastic, and the throwaway culture is alive and kicking. Developing countries don't have the luxury of thinking about an alternative."

On facing big corporations: "You're basically speaking out about the juggernauts that are the fossil fuel industry and petrochemical industry. Sadly, for them it's business as usual. Single-use bottle sales of water went up 7% last year. Production of plastic is set to increase. It's at about 400m tonnes a year at the moment. It's set to increase to 800m tonnes by 2040.

"I am privy to the greenwashing that is blatantly going on. The buck stops at big industry, which is still hell-bent on growth and absolutely in denial about its contribution to the issue."

Do the fossil fuel and petrochemical industries need to be encouraged towards biodegradable plastics?

"We have the technology to send people to the International Space Station," Bonnin points out. "We are sending another rover onto the surface of Mars – yet, they're saying plastic is still the best option. Alternatives are definitely part of the solution, but also just a drastic reduction in needless packaging, going back to refilling.

"We need a paradigm shift in our relationship with the planet and how we take from it. I'm inspired by economists such as *Doughnut Economics* author Kate Raworth, who talks about an economic model fit for the 21st century. The 20th-century model

"I'm not an activist. I am just a human being who is mad as hell that our leaders are continuing to ruin my planet. I have had enough of all the tokenism and all the lies"

is about extracting all monetary value from resources until we throw that resource away – a very linear, degenerative model. Some designers are looking at products that give back to society and to the natural world. I know I, and anybody I speak to, would want to support that kind of business."

Government inaction

What does Bonnin think of the UK government's plans so far to tackle single-use plastics such as microbeads?

"We did make a change when it comes to microbeads. But microplastics have infiltrated every corner of our planet, including the Arctic and the Antarctic. We've got a massive problem on our hands. Plastic is a useful material if it is manufactured and managed properly. The point is, particularly at government level, we tend to forget how serious this issue is."

Bonnin is emphatic: "The oceans are *dying*, the threat of plastic to human health is going to be overwhelming. Scientists are saying we have completely underestimated the toxic chemicals in plastic. To this day, a garbage truck-load of plastic is entering the ocean every single minute.

"In no uncertain terms, what the UK government is doing is not enough. A lot of these things are still proposals. We've been discussing bottle deposit return schemes for years. Sweden has been doing this for decades and had record high returns last year. But government says 'we need to consult with the public'. That just makes me want to pull my hair out! Just get on with it!"

When it comes to proposals to impose a tax on plastic packaging with less than 30% recycled plastic in it, she says: "This means, as a manufacturer, you can still make packaging that has 70% virgin plastic in it. Compare that with Costa Rica, which is planning to ban all single-use plastic in two years' time. It's simply not enough. It's pandering to big industry. There's no time to do this."

Her sense of urgency is palpable: "The oceans are not able to behave as the carbon sinks they are, because of all the plastic in there. They're also not able to produce as much oxygen as they're supposed to. If the planet's health falters, our future will fail. I don't understand why that is still being brushed under the carpet when we're talking about solutions. It makes me mad as hell because of what I've seen with my own eyes."

Is the UK's goal to reduce carbon emissions to zero by 2050 good enough?

"It's tokenism," she says. "I have it on good authority that we are never going to meet that target, even if we put

Plastic pollution

➤ Bonnin followed her biochemistry degree with a masters in wildlife biology

✔ Presenting the 2018 documentary *Drowning in Plastic*



“The buck stops at big industry, which is still hell-bent on growth and absolutely in denial about its contribution to the issue”

the brakes on now. Meanwhile, the government isn't actually implementing the action that could give us any chance of reaching that goal anyway. All of this talk, all these projections. None of it is enough.”

I mention reluctance to reduce fracking in the UK. “It doesn't make sense!” she exclaims. “Meanwhile, the fracking boom in the US is flooding the market with cheap plastic. I'm not an activist. I am just a human being who is mad as hell that our leaders are continuing to ruin my planet. I have had enough of all these embarrassing communications of issues, all the tokenism and all of these, well, basically, lies.”

No time to lose

Bonnin says she finds the situation is becoming more absurd. “I was in an important meeting, and the conversation switched to ‘are you stockpiling food now?’, ‘are we going to have riots on our streets?’ I almost had this out-of-body experience, thinking, ‘is this a real conversation taking place in my lifetime, because we haven't been able to stop our rampant destruction and greed?’ At some point, I thought, okay, the consolation is I'll be dead before all of this happens. But I won't. It could happen in the next 10 to 15 years.”

Both David Attenborough and Chris Packham have supported Population Matters, advocating that a sustainable human population is necessary for the planet. Would she agree?

“Well, I've chosen not to have children, for one thing,” she says. “Not solely because of the population issue – I didn't feel that my life path would involve children – but it is even more of a reason not to. The planet's human population is already at 7.4 billion. It's a closed system that has a finite number of resources.

One of my favourite David Attenborough quotes is: ‘anybody who thinks you can have infinite growth on a planet with finite resources is either crazy or an economist’.”

How does she deal with online criticism, as a figurehead within the movement?

“I was one of the last of my peers to go onto social media. I reluctantly joined Twitter, but I follow organisations that I respect and I've found this surprisingly useful.”

On *Blue Planet Live*, Bonnin dealt with an incident where a baby turtle was snatched by a gull on camera, which got some backlash. “Actually, that was my first experience of properly being trolled,” she says. “I was jet-lagged and desperately trying to just make sense out of all the nonsense I was getting.

“I was being told: ‘you should have wrestled the turtle out of the seagull's feet’, ‘you have turtle blood on your hands’. Very quickly I realized there is no point engaging, gave a couple of statements and then left it alone. Potentially, we are not doing our job right if people still don't understand how nature works.”

What advice would Bonnin give to a young person who wants to become an environmentalist and sees her as a role model?

“Have fun, immerse yourself in nature and believe in the good of people, take the pressure off a little bit. I think Greta Thunberg is an astounding human being. Young people see the truth and cut through the noise.

“I totally support those going on school strikes. Some said it was irresponsible and dangerous. I found that really ironic, considering what the strike was for. We've got to pick up the baton now. It should be on us to fix this, and on children to be children. To them I can try to vouch that I, along with my peers, will do our very best to sort out some of the problems.” 🍷



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MAKE
BUSINESS

Education

A radical plan is under way to bring climate change teaching into every classroom across the world. **Chris Seekings** reports



The UN's Climate Change Teacher Academy project intends to equip children with the skills needed to understand and protect the planet, before spreading the word as far as possible. The initiative could not come at a better time – with a mass movement of young people protesting government inertia worldwide – and it looks set to be a game-changer. It is comprised of two concepts: a specialist e-course for teachers and an interactive teaching programme for children.

Climate literacy for all

The idea is to incorporate climate change and the UN's Sustainable Development Goals into school curriculums. Teachers can sign up to five online courses, and after two months of training, they are accredited by the UN to teach climate change facts. The courses cover climate science, gender and environment, children and climate change, cities and climate change, and human health, and are free for primary and secondary teachers worldwide.

Angus Mackay, head of the UN Climate Change Learning Partnership (UN CC:Learn), is the brains behind the idea.

UN CC:Learn is a group of UN agencies

concerned about climate education and training. "Our goal is building climate change literacy at all levels – not just formal education, but all forms of education."

Mackay believes that environmental education can have the greatest impact at youth level. Children might be taught maths through the concept of diminishing Arctic ice, for example. "Anyone born in the 21st century will spend their entire lives dealing with climate change, so in that sense they are the climate generation."

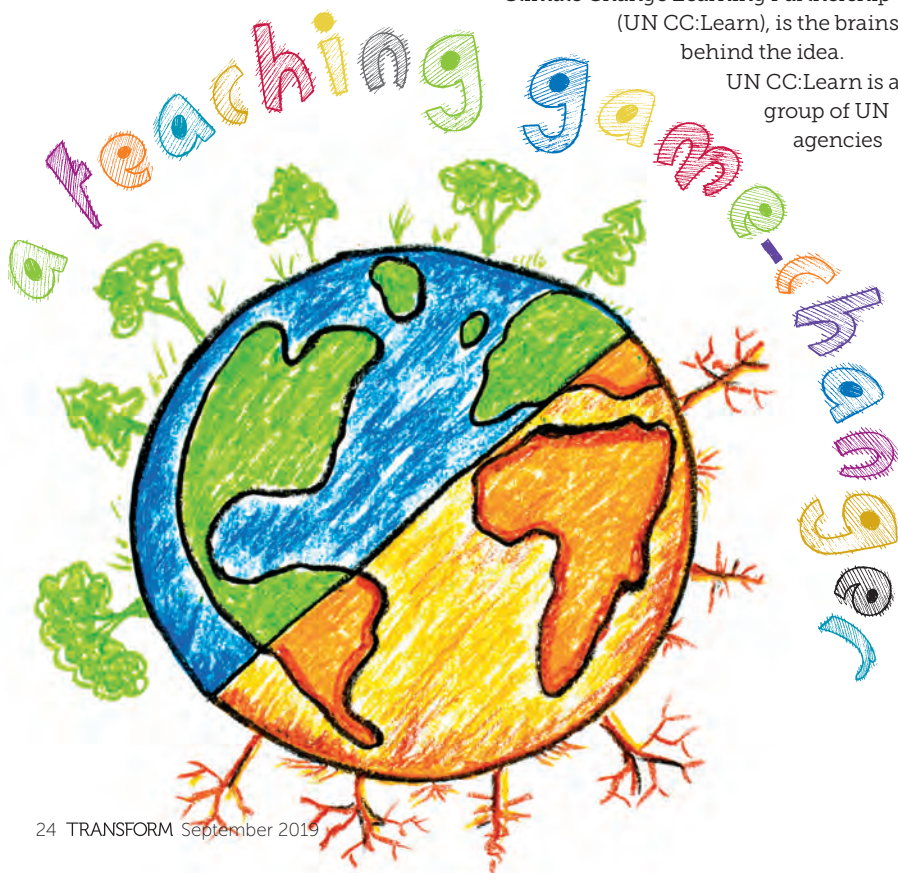
In the UK, the subject is only taught to children in geography and chemistry classes once they are in secondary school, and there is a pressing lack of awareness in education systems worldwide.

UN CC:Learn teamed up with Harwood Education to support its online courses for teachers in the UK; more than 80 teachers have signed up, and over a thousand others have registered an interest. The programme should be available to all schools in September this year. "You have to remember that these teachers are taking time out of their own lives to do this, founder Melanie Harwood says. "It is at very early stages, and we need to take it step by step, but once all the stakeholders are happy and we have built something amazing we can roll it out to all schools."

Building an army

The second phase, introduced at the COP24 climate summit last year, involves turning children into mini-journalists who can teach each other about the impact of climate change through social media, blogging and other online platforms.

Harwood is the creator of the innovative Start-Bee Handwriting Scheme, which





Environmental education can have a great impact at youth level, according to UN CC:Learn head Angus McKay

involves children teaching other children. "That is what got me interested; it made so much sense," Mackay explains. "The way kids speak makes it more likely that the information will sink in. If we can seed this idea in other parts of the world then we can build a revolution."

While children teaching children might sound chaotic, there will be structure. Every school involved will have a head climate change teacher to ensure children create content in a responsible way.

The plan is to kick-start an international youth dialogue that fosters direct discussion between schoolchildren around the world through 'Climate Change Diaries'. These interactive videos will be incorporated into classes, and a UN documentary TV series will showcase how children around the world are coping with climate change. The campaign will be promoted internationally through online channels. Although 44% of the world's population is without internet access, an app should be out next year that only needs to be downloaded once before all materials are available offline.

The Swiss government has helped fund the scheme to date, but it needs more support. There has also been concern around whether young children should be taught about this subject at all. "But the children are striking against climate change and want to know more – we are getting interest from all over the world," says Harwood. "We are absolutely passionate about this and have put our lives on hold to make sure it works." 

Find out more at:
www.unccteacheracademy.com

THE UK'S FIRST CLIMATE CHANGE TEACHER

Bec Wakefield, literacy lead and Early Years lead at Down Hall Primary School, talks about how she became the UK's first Climate Change Teacher accredited by the UN

Q: Was the training very challenging?

A: Parts of the courses were more difficult. I found the Climate Change International Legal Regime most difficult. It's online and there is a quiz to pass. The Climate Change International Legal Regime had three modules and you needed to pass each of these. It is possible to take each quiz up to three times and you must have either a 60% or 70% minimum score to pass.

Q: What are some examples of the teaching you provide your students?

A: Our youngest children have learnt about the importance of recycling and not being wasteful of water, food, resources, etc. We compost our snacks and use it on the vegetable beds in the garden, and also help to look after our school chickens. We have used picture books and stories to support the children's understanding. These have covered different issues, including the rise of plastic in the oceans, litter and its damage to the environment, and recycling and simple ways to become more environmentally friendly.

Children in Years 5 and 6 have learnt about palm oil using the Iceland advert as a stimulus. They have also learnt about the impact of climate change, such as severe flooding or the absence of rainfall and how this affects children's rights. They have also written to our local MP, who subsequently visited the school and had a question and answer session with Key Stage 2 children.

Q: What has the reaction been like from the students?

A: The children are very keen to make changes that could positively impact on the environment – after all, it is their future. Even the smallest changes build over time and become embedded.

Q: Is it a subject that the students are passionate about, and can they understand it easily?

A: The children are passionate and those in Years 5 and 6 were shocked by the



deforestation caused by palm oil. They questioned our local MP about his voting record on climate change. They want to make a difference.

I teach in Early Years and elements of our curriculum can clearly be linked: for example, the 'Early Learning Goal for The World' states that "Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur, and talk about changes." The exceeding statement for this goal states: "Children know that the environment and living things are influenced by human activity. They can describe some actions, which people in their own community do that help to maintain the area they live in." We are also teaching it through the UN Sustainable Development Goals.

Q: Has there been any criticism from parents?

A: None. Parents of children in our Early Years have commented on things their children have talked about, for example regarding turning off lights or picking up litter. I think this training has come at an important time. Children are interested in climate change – it matters to them.



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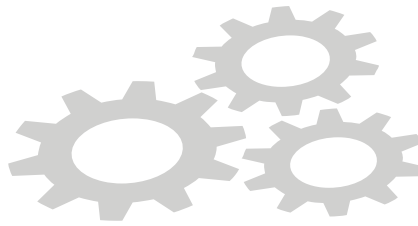
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Climate crisis looms large over business; this summer alone, we have experienced record-breaking temperatures and high levels of rainfall. While this impacts our natural capital, businesses should also be futureproofing their financial and human capital resources. The environment is changing, and we must put sustainability at the heart of decision-making.

We must start to build the critical thinking needed to challenge the norms of day-to-day business and influence the way colleagues are making organisational decisions that impact sustainability goals.

IEMA is dedicated to helping you train your workforce, offering courses that will give people the knowledge that's crucial to kick-start behavioural change in your organisation. IEMA courses ensure:

- Cost savings in waste, recycling and consumption
- Advantage over competitors when tendering for business
- Improved management of environmental risks
- Demonstration of your commitment to improving the environment
- Increase in employee engagement
- Enhanced reputation.

IEMA's training portfolio is growing, both in terms of learner numbers and training partner coverage – particularly at international level. This is allowing multinational companies to demonstrate a benchmark for their UK and international employees to work towards. JCB, for example, has been

Education Focus

Three organisations discuss their approach to sustainability training, and offer their insights into why it is so important

training a dual management cohort in IEMA's Environmental Sustainability for Managers in the UK and India, through training partners NIST (India) and EEF (UK). This shows its commitment to enhancing knowledge and creating behavioural change. The expectation is to secure a more engaged management that can make positive contributions over time.

Every organisation's approach to training should be tailored to strategic outcomes, and IEMA's suite of courses are geared towards training and developing colleagues across a business, in order to increase sustainability knowledge at a grassroots level. Embedding sustainability awareness at a broad level is the key

to change; as a result, environmental and QHSE managers, who lead the sustainability agenda in organisations, can achieve cross-business insight and buy-in.

Some organisations deliver this training in-house, which presents an opportunity to contextualise

content and build team engagement; however, a significant proportion prefer to source

directly from an IEMA-accredited training partner. This ensures quality training, and access to the external trainer's broad experience. Both approaches have merit, and IEMA relationship managers are happy to discuss the options with you.

Further detail on the full portfolio of courses and training partners can be found at bit.ly/2u7noBe

Please contact e.brown@iema.net for further discussion.



This extract from the syllabus illustrates some of the core areas of learning from the Environmental and Sustainability Skills for Managers course:

1. The Learner will have knowledge and understanding of the main environmental and economic risks and opportunities
2. The Learner will have knowledge and understanding of compliance obligations and business drivers for change
3. The Learner will have knowledge and understanding of the main potential impacts on environment and sustainability
4. The Learner will have knowledge and understanding of how to improve environmental performance
5. The Learner will evaluate drivers for change and barriers
6. The Learner will apply knowledge and understanding to baselines data to monitor and improve performance
7. The Learner will apply knowledge of environmental sustainability across the value chain
8. The Learner will demonstrate the importance of implementing resource efficiency
9. The Learner will demonstrate how employees can improve environmental performance.





Q As society starts to prioritise the environment, has training organisational workforces become business critical?

With climate change warnings forecasting billions of displaced people, food and water shortages, and large sections of the world rendered uninhabitable, you would expect environmental management training to be in demand. While we are seeing an increase, it is negligible, with many organisations still not seeing sustainability as an immediate business priority. The conflicting demands of profits, votes and political agenda delivery are of far more importance to some.

We initially offered environmental management training around 20 years ago, but it remains the poor cousin of health and safety. Most organisations still prioritise 'save the worker' over 'save the planet'. Having said this, increasing numbers of enlightened organisations are starting to take sustainability more seriously – it's still small-scale compared to health and safety, but hopefully the start of an accelerating trend. Encouragingly, a lot of new interest is coming from outside the UK, with significant growth over the past five years coming from the Middle East and North Africa – the places on the frontline when it comes to climate change.

Demand for health and safety training has been driven largely by regulation, and there is now a well-established body of legislation applicable to all organisations, large and small. And the 'occupational' precursor to health and safety clearly identifies it solely as a responsibility for organisations, with no responsibility for the population as a whole.

While the UK has a significant body of environmental legislation, it mainly

covers control of pollution and the conservation and management of land – which will only have a major impact on larger organisations. Without the legislative imperative to train staff across all organisations, it will take a lot of effort to persuade many organisations to make the investment to improve their sustainability.

More significant are government policies seeking to enforce or encourage behavioural change: vehicle emissions, charges on disposable plastic bags, etc. Public awareness is starting to put pressure on organisations to do more to reduce their impact. Whether there

is enough 'people power' to negate the need for legislation is yet to be seen.

Effective environmental management can be a real business plus, reducing costs and engaging employees. Saving the planet is a righteous

action that most employees will buy into, and provides a good impression to external audiences. I assume the lack of demand for training is because we still have work to do to get these messages into the boardrooms.



RRC INTERNATIONAL

Gary Fallaize, managing director

Q How do you ensure your programmes equip graduates with the sustainability knowledge required for today's business agenda?

Within the School of Environmental Sciences at the University of Liverpool, we strive for authentic assessments, ensuring our students are assessed in a way that aligns with real-life practice scenarios. In preparing the students with the study of environment and sustainability, we work closely with environmental practitioners. The scenarios presented to the students are real-life environmental and sustainability issues that challenge them to come up with solutions that would suit their clients. For example, in our module on environmental planning and management of projects, we have been working with The Mersey Forest as our client, looking at the Urban GreenUP project in which Liverpool City Council is participating.

The students have come up with





Q Why is upskilling teams so important, and how is it impacting the company's strategic objectives?

suggestions that have influenced the overall plan for the project.

Furthermore, our teaching is cross-disciplinary; we provide a range of modules both natural science and social science-oriented to ensure students have the knack for working with stakeholders across the spectrum to understand how trade-offs need to be made. We also provide modules which teach students about the importance of translating their passion for sustainability in a real business scenario.

Modules such as Business and the Environment and Politics of the Environment give students a flair for the complexities of achieving sustainability, and train them to appreciate competing demands and achieve solutions for them.

“The scenarios presented to students are real-life issues”

Through some of the modules (such as Environmental Sustainability) we encourage students to look critically at their own campus and come up with solutions that can enhance our own sustainability. Our Guild of Students is also active in the field of sustainability and works with various programmes to incorporate research and training for the enhancement of campus sustainability.



UNIVERSITY OF LIVERPOOL

Dr Urmila Jha-Thakur, environmental planning and management lecturer. Acting PGT director for the School of Environmental Sciences

ENGIE became an IEMA-approved training provider at the end of 2018 to deliver in-house training to employees, with the opportunity to provide training to customers' employees. We had previously provided training internally on a range of environmental topics and wanted to develop our provision. Becoming an IEMA-approved training provider has allowed us to deliver an inclusive course with a greater level of sustainability awareness and skills, as well as giving employees a qualification from a well-respected external body.

Our ambition is to lead the zero-carbon transition, making a lower carbon future possible for customers. The courses we deliver ensure our employees learn about the importance of this ambition, as well as gaining the skills to help them support our progress. The courses ensure employees are empowered to make positive change, as well as challenge unsustainable behaviours.

Delivery of training in-house allows us to tailor the course to our own policies and procedures and demonstrate how our business objectives and Responsible Business Charter align with our sustainable development goals, as well as supporting the environmental agenda. Self-delivery lets us arrange

course dates to suit employees and the training is delivered at our offices across the UK – making them accessible for people working in different parts of our business. Another benefit of in-house training is that it is very cost effective.

The IEMA courses have received excellent feedback and those who have attended have thoroughly enjoyed the content. They have left with a greater awareness of how it is not just their own direct operations that can have an environmental impact, but also how the wider context and environmental sustainability impacts can be considered throughout the supply chain.

While the IEMA Environmental Sustainability Skills courses contain a lot of information, the resources are structured in a way that makes the content easily digestible and allows us the flexibility to use additional case studies and activities to make the content more relevant to our organisation.

We are now looking to develop our in-house training further around the IEMA training courses and believe this will help to further embed our purpose of improving lives through better working and living environments.



ENGIE UK & IRELAND

Ann Seymour, environment manager

“The courses ensure our employees are empowered to make change”

CONNECT

SOCIAL AND COMMUNITY NEWS FROM IEMA



CONFERENCE

Rewilding goes from strength to strength

Climate Action North's recent sold-out conference marking World Environment Day attracted more than 140 attendees, who heard a panel of experts sharing their experiences of rewilding and climate change.

This is the fourth rewilding event Climate Action North has held during the past 12 months; the group firmly believes rewilding is a cornerstone of combating climate breakdown. It has caught the imagination of professionals and the public alike, and Climate Action North is delighted to be championing this movement in the region.

Huge thanks to the inspiring line-up of speakers, including:

Mike Pratt, chief executive of Northumberland Wildlife Trust, chaired the day and highlighted the incredible recent shift in public attitudes towards rewilding and climate change.

Alastair Driver, director of Rewilding Britain, discussed how traditional conservation practices on their own are not enough to achieve significant wildlife recovery in the UK. More is needed – and that 'more' is rewilding.

Isabella Tree, shared her personal experience of rewilding the Knepp Estate in Sussex. Isabella and her husband Charlie Burrell decided to rewild the estate almost 20 years ago when they realised the farm was failing. The estate is now a thriving landscape for wildlife, and a profitable business.

David Hetherington, ecologist and author, outlined how trees are a powerful weapon in the fight against climate change and introduced us to the exciting and ongoing 'treewilding' of the Cairngorms National Park.

Doug Allan, *Blue Planet* cameraman and award-winning photographer, shared his personal experiences of his time in the Arctic and how he balances climate reality with climate optimism.

There is no defined end-point for rewilding; the aim is to support nature-driven processes, which in turn will bring about a healthier and wilder nature. This will take time and space, and every step moving up this scale is progress.

♦ For a full report of the event visit: bit.ly/RewildCAN

QUOTE
UNQUOTE



Brilliant to see the positive cover article in this month's [@IEMA_Transform](#) by our very own Dr Maskell who supports our membership in the North West region. It's so important to understand the contributions we can make to mitigate the effects of the [#climatecrisis](#) [@IIEUK](#)

In the last six months my travel to London has reduced significantly with the full support of my employer.



Always travel with these, so [#plasticfreejuly](#) looks same as any other month. [@iemagnet](#) [@PlasticPioneers](#) [@SARAHHILLPRATT](#)



We are proud that our magazine [@IEMA_Transform](#) been shortlisted for the 'Best Channel for Members' category at the [@IoICNews](#) Awards 2019 – good luck to everyone nominated! [@IEMANET](#)

Another fantastic issue of award winning [@IEMA_Transform](#) with a superb article on climate anxiety from [@JanMaskell](#) and from our [@SandraKNorval](#) 'Time to speak up' on public speaking to engage others on sustainability issues. [@BLUEDOTAUG](#)

Interesting [@IEMA_Transform](#) article on possible strategies for electric aircraft. Synopsis: it ain't gonna be easy, it's going to be very difficult indeed. [@JPT9320](#)



A timely and helpful article in July's [@IEMA_Transform](#) about dealing with [#ecoanxiety](#) by [@JanMaskell](#). Personally I have found discussing these issues with friends at [#GreenThinkers](#) book club very constructive as well as trying to focus on what I can do rather than what I can't. [@MAREKBIDWELL](#)

IEMA's new Operations Director



[@TobyRobins](#) reading the latest issue of [@IEMA_Transform](#) – tackling all the big topics including [#carbon](#) [#plasticPollution](#) [#ecoanxiety](#) [#climatecrisis](#) [@IEMANET](#)



WHAT'S ON THIS MONTH

iema.net/events

EXPO

Future Resource

► 11-12 September

Making an exciting comeback to Birmingham's NEC, the UK's leading sustainability and resource management event is specifically designed for businesses aspiring to be greener and more sustainable, and provides a platform for the latest solutions and industry insights shaping the future of the utilities sector.

► bit.ly/FUTRES-Expo

BIKE RIDE

Cedrec Cycle Challenge

► 13 September

The Cedrec Cycle Challenge, a round trip through the Co. Durham countryside, is a great networking opportunity, open to IEMA members and professionals from other associated organisations from all sectors. The event is free to IEMA members. Please quote the discount code BIKE10.

► bit.ly/CEDRECBike

EVENT

Bristol: Marine Conservation Society Sand Bay beach clean

► 21 September

Come along and take part in the Great British Beach Clean at Sand Bay Beach, Western-super-Mare! Join us and help with our beach clean and survey, recording all the litter we pick up as we go.

► bit.ly/SandBayWatch

GESA NETWORK

Sustainable Finance – Fundamentals of ESIA for Young Professionals

► 28 September

In this interactive event, we'll be discussing sustainable finance with the GESA Young Professionals' Network. We will look at the financing process, focusing on technical delivery, via the use of a hypothetical project. A social event will follow, giving both senior and junior professionals the chance to network.

► bit.ly/SustFinGESA

SCOTLAND WEST

Tackling air pollution in Scotland's cities

On World Environment Day 2019, IEMA's Scotland West Region welcomed a number of members along to a networking event in Glasgow. The topic of discussion was the growing air pollution and air quality problem in Scotland's heavily populated cities.

The event allowed for discussions concerning local and national air pollution issues and how to overcome these, with thought-provoking presentations from Derek McCreadie of Transport Scotland and Annie Danskin of ITPenergised.

Derek's presentation highlighted areas within Glasgow city centre that are affected by air pollution, and how these effects are worsened during certain times of the year, particularly in highly populated areas. Derek suggested methods that can be used to combat these effects, including the recent implementation of the Glasgow Low Emission Zone. "It was great to see so many people being passionate about the environment and sharing ideas," he said, following his presentation.

Annie's presentation highlighted the importance of the planning system in reducing the local air pollution impacts of proposed and existing developments. This highlighted the importance of engaging with experts early in the planning process to identify potential effects of proposals and

mitigate these where possible. The key message was to ensure early engagement and consultation is undertaken during the development process.

Following discussions surrounding air quality, attendees were given an inspiring presentation by Lizzie Ride and Lauren Doyle from Glasgow Over Plastic, a local youth-led initiative tackling the issue of plastic pollution in Glasgow. Glasgow Over Plastic's aim is to make Glasgow a plastic-free city by engaging educational resources and campaigns, in partnership with local individuals, communities and businesses.

The event proved to be very popular, highlighting the role of platforms such as World Environment Day in raising awareness and focusing attention on pressing environmental concerns. Harry Becker, a Student IEMA member, said: "The speakers were very interesting and gave me a good insight into air pollution and strategies to help reduce the issue. It was also good to see young people getting involved in combating litter pollution in Glasgow through the Glasgow Over Plastic volunteers."

The Scotland West steering group is busy putting together a programme of events for the remainder of 2019 – keep an eye out for updates during the coming weeks.





Why did you become an environment/sustainability professional?

It was inevitable I would get drawn into the sustainability world as I tried to answer questions such as: "Why are companies not better at considering social and environmental impact?"; "If we all agree that responsible business matters, why are we doing so little about it?"; and "What does it mean, practically, to be a sustainable business?"

What was your first job in this field?

Partner in charge of the sustainability service area for KPMG in the UK.

How did you get your first role?

I won an interesting piece of client work, thanks to the support of the team I would go on to lead. I was worried that they needed some support and investment, and when I raised this I got the job.

What does your current role involve?

My fascination is with how conflicts can prevent organisations from achieving their potential. I also care about the effect this has on people and their lives. Toxic business environments destroy social and relationship capital. Most of my work can best be described as relationship-focused mediation. No problem is beyond rescue.



How has your role changed/progressed over the past few years?

My primary motivation and sense of personal identity shifted, starting around 2009, from chartered accountant and partner in KPMG with a strong interest in sustainability, to sustainability professional who just happened to have got there via a career in accountancy.



CAREER PROFILE

Vincent Neate

FIEMA

Director of Relationship Capital Strategies Limited

What's the best part of your work?

Conflict resolution. If you mess up the relationship you have with a colleague, customer or supplier, then you will have business problems. In everything I do there is a moment when I know something has changed for the better – that moment is precious when you spot it.

What's the hardest part of your job?

I am not cut out to be a sole-trader – I enjoy people too much.

What was the last development event you attended?

I went to a half-day LinkedIn masterclass by an outfit called Maverik, which was superb, as well as a session run by the New Mediators Breakfast Club about the concept of 'without prejudice' in mediation.

What did you bring back to your job?

The lessons about 'without prejudice' were important because within a conflict situation you want to get the parties speculating together about possible better futures, without thinking they are going to be held to ransom for what they say.

What are the most important skill(s) for your job?

The ability to suspend judgment. No matter how valid my opinion might be, it is always irrelevant. I often ask other consultants: if you could only give one piece of advice, what would it be? For my job – and in my opinion



Visit www.iema-transform.net for more member profiles

for any job – it's 'the meaning of your communication is the response you get'.

Where do you see the profession going?

I want it to go to the top table. Of the letters after my name, FIEMA are the ones I take most pride in because they were granted for what I stand for. I would like everyone in IEMA to feel like that, and am excited about the prospect of the Institute being granted Chartered status as a step in that direction.

Where would you like to be in five years' time?

Earning more and feeling more secure – but what I really want is to be authentic. To live authentically is a constant struggle. According to **Jean-Paul Sartre**, thinking you have got there is a sign you haven't.

What advice would you give to someone entering the profession?

Keep learning. Build community. Breathe compassion into other people's problems.

How do you use the IEMA Skills Map?

I went through it last week to plan what I want to develop CPD-wise. Early in my career I focused on what I needed to learn professionally, but now I can shape my own journey.

If you had to describe yourself in three words, what would they be?

Pyrrhonist, existentialist, optimist.

What motivates you? My values are personal responsibility, a flexible mindset and universal compassion, so I am motivated by allowing them to flourish.

What would be your personal motto?

My family motto is 'God is my hope' – I may have given up on the former but I still believe in the latter.

Greatest risk you have ever taken? Swimming the **Thames** after a skinful.

If you could go back in history, who would you like to meet?

Sartre. 🇫🇷





The judges were blown away by the nearly 200 entries to IEMA's inaugural Sustainability Impact Awards, proving that the sustainability profession is bursting with innovation and talent.

After gathering for a special shortlisting event in London, a total of 106 projects, companies and individuals were selected to go forward for a chance of glory at September's ceremony.

There are 19 awards up for grabs, with the winners benefiting from a boosted profile, publicity, prestige, a competitive advantage, new business opportunities, greater support, and recognition of talent.

But these awards are also a celebration of everyone striving to meet IEMA's global sustainability standards, and with environmental protections looking as vulnerable as ever, they could not come at a better time.

After mulling over the exceptional entries, IEMA's new board chair, Paul Leinster CBE, said: "I have been in environmental management for more than 40 years, and the environment and sustainability have never been more important than they are now. These awards are about rewarding, celebrating and recognising the great work that is being done day-to-day."

Companies from locations as far away as Qatar entered this year's awards, while representatives from the NHS, HS2, National Grid and the Environment Agency were all on the judging panel.

From campaigns to eliminate plastic pollution, to working on massive construction projects spanning

Reading to Shenfield, the award entries were a perfect example of the sheer range of expertise on offer from sustainability professionals.

IEMA CEO Tim Balcon said: "They have all just been superb, particularly at this time of climate volatility and environmental degradation. The UN has said we have 11 years to make a difference, so this is our opportunity to recognise and profile people with the skills to make the change needed."

The individual awards celebrate the sustainability leaders making a real impact today, and those that are likely to deliver the greatest change in the future.

However, the future sustainability leader category has been particularly hard to judge: "Just when you think you have got the winner, you then start judging the second applicant and the third, and you think 'okay actually, hold on,'" said independent sustainability consultant, Kamran Shezad. "They have very different qualities, but they all show leadership and are pioneering and innovative, so it is very difficult to judge."

All eyes will now turn to 20 September, when the winners will be announced at a lunchtime reception at The Brewery in London. Those in attendance will be treated to a drinks reception before a three-course meal made from locally sourced ingredients, followed by the awards ceremony itself and post-show networking. So are the judges looking forward to the big day? "You bet! I am so looking forward to it," Shezad said.

"It's important that we reward and recognise our future sustainability leaders, to say: 'You can do it, it is achievable, and we are all in this together as we work towards a sustainable future'."

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BEST TEAM

Sustainability Team – ABP Food Group
Submarine Cabling Sustainability Cost-Benefit Analysis Team – AECOM and Scottish and Southern Electricity Networks (SSEN)
Green Group – Davies Veterinary Specialists
Environment Team – Deloitte
#BeyondPlastic Taskforce – Foreign and Commonwealth Office
Sustainability Team – Ingleton Wood
On Network Works Environment Team – Network Rail
Sustainability Team – SP Energy Networks

CIRCULAR ECONOMY

Costain/ATC Joint Venture
Ecoboath
James Cropper
Skanska, MWH Treatment, Balfour Beatty Joint Venture (SMBJV)

SUSTAINABILITY CAMPAIGN

Herts Low Carbon Innovation Network – BRE
Costain Resource Efficiency Matrix – Costain
Avoidable Single Use Plastics Elimination – Environment Agency
#BeyondPlastic – Foreign and Commonwealth Office
Green Action Competition – UK Fire and Rescue Services
The Great British Spring Clean 2019 – Keep Britain Tidy
Green Sail – Sail Croatia
10,000 Actions – The University of Manchester

SUSTAINABLE ORGANISATION

Anglia Print
John Sisk and Son
Keltbray Group
Qatar Rail
Skanska UK
WSP

NEW PRODUCT, SERVICE OR TECHNOLOGY

The Hydrofrase – Costain, VINCI Construction Grands Projets and Bachy Soletanche (CVB Joint Venture)
Mott MacDonald Carbon Portal – Mott MacDonald
Waterman Biodiversity Toolkit – Waterman Infrastructure and Environment
Wilson e2 Amorphous Transformer – Wilson Power Solutions

CONSULTANCY AND COLLABORATION

AECOM
Beyond Green
Enviro-Mark Solutions
National Union of Students
Resource Futures
The Low Carbon Project – University of Derby Business School, University of Derby Institute for Innovation in Sustainable Engineering, Derby City Council and Derbyshire County Council

INNOVATION IN IMPACT ASSESSMENT

The Common Social Impact Framework (CSIF) – Action Sustainability
Stonehenge – AECOM
LUC Planning Team – LUC
Crossrail 2 (MTEW Consortium) – Mott MacDonald on behalf of MTEW Consortium
iReport – Royal HaskoningDHV

WORKFORCE DEVELOPMENT

Hearts and Minds Engagement Campaign – Arriva Rail North
The Atkins IEMA Support Programme – Atkins (SNC-Lavalin)
Environmental Graduate Development Programme – Peter Brett Associates (PBA), now part of Stantec
Hanson and Watts Sustainability

BIODIVERSITY AND ENVIRONMENT NET GAIN

Wild West End – Arup
Army Basing Programme (ABP) – Aspire Defence Capital Works
Delivering Biodiversity, No Net Loss on the Greater West Programme – Network Rail
Whyteleafe South Substation Renewal – Siemens Mobility, Rail Electrification
Heathlands – TEP
Forder Valley Link Road – WSP

CONSTRUCTION AND INFRASTRUCTURE PROJECT

Greener Grangetown – Arup
Project Allenby/Connaught (PAC) – Aspire Defence Capital Works
Deloitte LLP, 1 New Street Square – Deloitte
Port Clarence and Greatham South Flood Alleviation Scheme – Environment Agency
Borough Yards Project – Keltbray
P2R-GE-ATF Crossrail – Keltbray Rail
A465 Heads of the Valleys Trunk Road – TACP



“They have all just been superb, particularly at this time of climate volatility and environmental degradation” **TIM BALCON**



"They have very different qualities, but they all show leadership and are pioneering and innovative"

KAMRAN SHAZAD

ENERGY AND CARBON TRANSITION

Aviva

Eiffage Kier Joint Venture

Mott MacDonald

Green Paper on establishing the Blueprint for Electric Vehicle Charging Infrastructure

– Peter Brett Associates (PBA), now part of Stantec and Rogers Stirk Harbour and Partners
Skanska UK

TAG Farnborough Airport

UK Power Networks

CLIMATE RESILIENCE AND ADAPTATION

Accelerating climate adaptation in the Further and Higher Education sector – EAUC, the Higher Education Business Continuity Network (HEBCoN) and AECOM

Temaiku Land and Urban Development – Jacobs New Zealand

SUSTAINABLE FINANCE

BNP Paribas CSR

Collier Capital

Ecosystems Knowledge Network

Environmental and Sustainability Department (ESD)/Energy Efficiency and Climate

Change (E2C2) – The European Bank for Reconstruction and Development (EBRD)

Treasury Team – Pennon Group

Tideway

WHEB Asset Management – WHEB

BEST CORPORATE STRATEGY

Kier Highways

Pure Planet

Siemens Mobility – Rail Electrification

COMMUNITY AND SOCIAL VALUE

Food Redistribution Project – Central England Co-operative

The Ibadan City Masterplan – Dar

EC and UWS – Teaching the Unreached – EC English Language Centres

GPE Community Strategy – Great Portland Estates and Greengage

Battersea Power Station Phase 2 – Mace

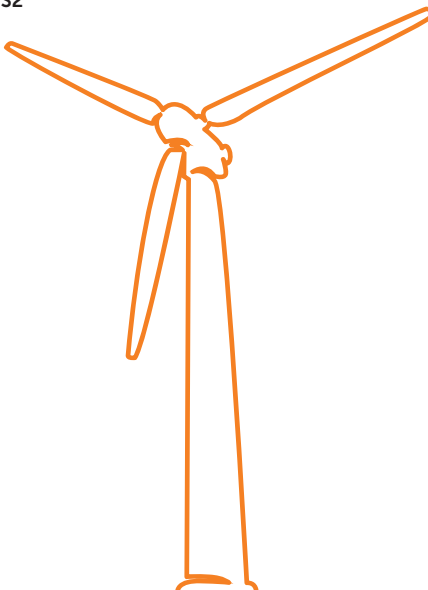
Workers Welfare Programme – Qatar Rail

SITA Air Transport Community Foundation – SITA

Academy9 – Transport Scotland

SUPPLY CHAIN MANAGEMENT

Supplier Sustainability Development Program (SSDP) – ABB
HS2



FUTURE SUSTAINABILITY LEADER

Clara Paine, environmental consultant, Arup

Salem Qunsol, sustainability engineer, Dar

Simon Cripps, consultant, EVORA Global

Charlotte Calloway, environmental and

sustainability manager, Foreign and Commonwealth Office

Samantha Carlsson, senior sustainability consultant, Hoare Lea

Laura Shamsuzzaman, operations co-

ordinator, St Mark's Shopping Centre

Alicia Winter, sustainability and carbon

specialist, Mott MacDonald

Claire Hicks, manager, Future Ready, WSP Canada

SUSTAINABILITY LEADER

Robert Spencer, director – sustainable development, AECOM

Jess Kennedy, associate director – sustainability, Arup

Dr Waddah Ghanem Al Hashmi, senior director – sustainability, business and

operational excellence, Emirates National Oil Company (ENOC)

Paul Sutcliffe, founder and director, EVORA Global

Alex Hilton, head of sustainability, Foreign and Commonwealth Office

Rowan Byrne, principal marine environmental scientist, Mott MacDonald

Imogen Christodoulou, senior sustainability consultant, Scotch Partners

Lucinda Farrington-Parker, environment and sustainability manager, VolkerStevin

BEST VOLUNTEER CONTRIBUTION

Katie Atherton, senior environmental advisor, Cementation Skanska

Morag White, logistics manager, Jacobs

David Hoare, associate director, WSP

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