

BD'S TOP 50 GREEN LEADERS

With Ecobuild opening later this month, we publish BD's inaugural list of the 50 most influential people in UK sustainability

The world of sustainability is nothing if not fast moving. When we set out to compile a list of the 50 people who are currently setting the green agenda in the UK, we certainly expected the then-energy secretary Chris Huhne to feature high in the ranking.

Following his recent scrape with the law, Huhne is a notable absentee, but the final list certainly reflects the importance of initiatives with which he was closely linked. In particular, Paul Morrell's place in the number-one slot recognises the significance of his role as the principal author of last year's Low Carbon Construction report.

The Green Deal — hailed by Huhne as "the most ambitious energy-saving plan ever put forward... a once-and-for-all refit that will make every home in Britain ready for a low-carbon future" — looks set to be the most significant response to Morrell's findings. When it goes live this autumn, the programme will enable householders to secure loans to upgrade the environmental performance of their



Ecobuild is the world's biggest sustainable design, construction and built environment event. This year it will take place at London's ExCel Centre, March 20-22. Details of the programme can be found at www.ecobuild.co.uk BD will be hosting a series of events on the final day. For further information about these visit bdonline.co.uk/ecobuild

homes and pay the money back over a 25-year period through charges on their energy bills.

The nature of the list means that government advisers and campaigners feature more prominently than architects. Nonetheless, half a dozen architects have made the cut — in most cases, not just for their work as designers but for the energy with which they have

tried to engage the rest of the profession and the wider public with the cause. Rab Bennetts and Sunand Prasad, in particular, have played important campaigning roles through their work with the UK Green Building Council and RIBA respectively.

But the list isn't entirely devoted to elder statesmen. It also recognises the younger pioneers who will be setting the agenda in the years ahead. Among the work being undertaken by architects, Michael Pawlyn's investigations of biomimicry and Justin Bere's work on affordable Passivhaus standard homes promise to be particularly valuable.

We are publishing the list a couple of weeks before Ecobuild, where Morrell and many of the other individuals featured will be speaking and contributing to seminars. As the UK faces up to the epic challenge of reducing its carbon emissions by 80% by 2050, the sustainability agenda is unlikely to remain static for long. Right now, however, these are the faces to watch.



Bow Cross estate is being retrofitted by PRP.

01

PAUL MORRELL
GOVERNMENT ADVISER

The government chief construction adviser headed the Low Carbon Construction Innovation & Growth Team whose landmark report in 2010 presented no less than 65 recommendations.

One of these led to the creation of the Green Construction Board, on which Morrell now sits. Its aim is to drive the government's sustainability agenda in the construction industry, with the target of delivering a 50% reduction in carbon emissions from the built environment within a decade.

The Green Deal is another outcome. It looks set to put in motion a massive programme of retrofitting of the UK's existing housing stock (see lead image).

Morrell is also leading the push for bim, which promises



Paul Morrell: driving low carbon efforts.

to allow more accurate environmental testing of buildings prior to their construction and is working to ensure that sustainability is enshrined in all publicly commissioned work. Behind the scenes he is also fighting for Breeam regulations to remain a must for the Priority

School Building Programme. A quantity surveyor by training, Morrell took up his current role after leaving his post as senior partner at Davis Langdon. He has also served as deputy chairman of Cabe. Morrell is forceful and generally right, much as he annoys some architects.

02

JAMES LOVELOCK
SCIENTIST

In the 1960s, the independent environmentalist and futurologist coined the now widely accepted Gaia hypothesis, which argues that the biosphere is self-regulating and has the capacity to keep our planet healthy by controlling the chemical and physical environment.

Now aged 92, Lovelock is a vocal critic of much current thinking about sustainability, arguing that calamity is inevitable and that the only way forward for mankind lies in the adoption of nuclear power.



03

PAUL KING
CAMPAIGNER

The UK Green Building Council would be a much smaller place without its architect-friendly and hugely influential chief executive. Respected by government, King is chairman of the Zero Carbon Hub and a member of the Zero Carbon Homes 2016 Task Force.

He also serves as a board member of the World Green Building Council and chairs the World GBC International Policy Task Force and World GBC Europe Network.

His mission is to make the construction industry a leading force in sustainability.

04

JAMES CAMERON
INVESTMENT MANAGER

The 50-year-old vice-chairman of Climate Change Capital is a barrister who says the UK has to focus on low-carbon industry if it is to survive economically.

The investment manager's ambition is to remove 100 million tonnes of carbon from the atmosphere.

An Anglo-Australian, Cameron's legal career has included work on the Kyoto Protocol.

He is a member of the prime minister's business advisory group so is well positioned to influence government thinking.





MICHAEL CLEMENT

05

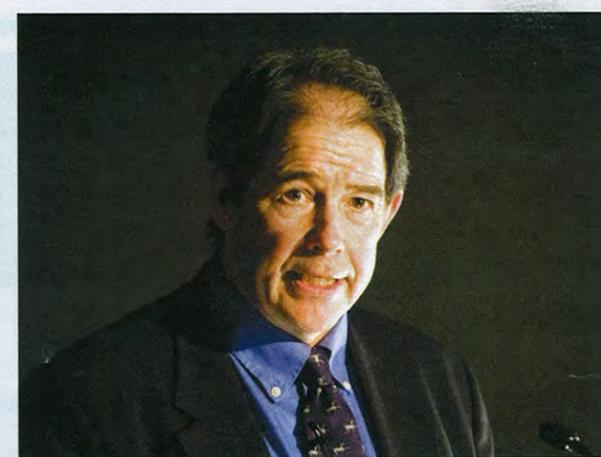
DAN LABBAD
BUILDER

The 40-year-old Australian juggles his chairmanship of the UK Green Building Council with responsibility for Lend Lease's construction and development operations in the UK, Europe and Africa.

A builder who thinks green might surprise some but Labbad's CV aims to check

those prejudices at the door.

Co-chair of government's Green Construction Board, he was behind Lend Lease's inaugural sustainability report in 2005. In 2001 he established the Hornery Institute in Australia, which helps create socially sustainable communities.



06

JONATHAN PORRITT
CAMPAIGNER

Porritt has constantly challenged the government and the wider industry to work in a totally different way.

But his greatest influence has arguably been through his work as a children's television presenter, whereby

he influenced an entire generation who are now becoming clients.

A former director of Friends of the Earth, Porritt was also the first chair of the Sustainable Development Commission, which he headed for nine years.



ALICIA CANTER/GUARDIAN

07

CAROLINE LUCAS
POLITICIAN

Lucas flies the flag for sustainability through her work as co-chair of the All-Party Parliamentary Group on Fuel Poverty and Energy Efficiency. Best known for being the first Green Party MP, she recently criticised the government for its failure to properly reform the solar feed-in tariff scheme.

A prolific tweeter on all things environmental, Lucas has garnered 38,000 followers. She also sits on the Environmental Audit Select Committee and is a director of the International Forum on Globalization.



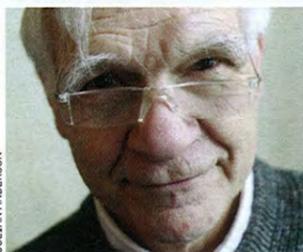
JULIAN ANDERSON

08

GEORGE MONBIOT
CAMPAIGNER

The darling of the left and regular Guardian columnist has recently published a book, *Heat: How to Stop the Planet Burning*, which shows how carbon emissions can be cut by 90% without compromising our quality of life.

He is working on a book about the large-scale restoration of ecosystems — under the working title *Feral: Rewilding The Land, The Sea and Human Life*. Monbiot says he loves his work, which also includes setting up the ArrestBlair website, but claims he would rather be tracking wolves.



MORLEY VON STERNBERG

09

MAX FORDHAM
ENGINEER

A true pioneer, Fordham has always been fascinated by how buildings work and, though he honed his skills in heating engineering, he refused to be pigeonholed.

He founded the firm that bears his name in 1966 to offer building services engineering and has gone on to work with leading architects on low-energy buildings including Snape Maltings and the National Trust HQ.

He won the RSA's Prince Philip Designers Prize in 2008 for pioneering environmental design for buildings.



10

BILL DUNSTER
ARCHITECT

Prior to setting up Zedfactory in 1999, Dunster worked for 14 years at Michael Hopkins & Partners, where he was instrumental in embedding a sustainability agenda.

In 2002, Zedfactory completed the pioneering Bedzed development for Peabody — the UK's first and

largest zero-energy development, which was shortlisted for the Stirling Prize.

Dunster's designs continue to challenge — not least the Portzed, a development of 60 units in Brighton, which was refused planning permission last month.



11

DOUG KING
ENGINEER

No sustainability list would be complete without the man who made the term "eco-bling" a household phrase. King is a pioneer in sustainable design who isn't afraid to say what he thinks.

He graduated with a degree in physics before switching to the construction sector and has worked on a number of groundbreaking buildings including the Rolls-Royce factory in Sussex and the RSC Courtyard Theatre on Stratford-upon-Avon.

He is an author, teacher and founder of consultant King Shaw Associates.



12

BILL BORDASS
CONSULTANT

A scientist by training, Bordass is brilliant at debunking design that doesn't work and has a track record of outing buildings that wrongly claim to be green.

In the 1970s he developed RMJM London's building services engineering team, promoting energy-efficient design and investigating environmental performance. He was subsequently a key member of the Probe team which published 20 pioneering building performance studies.

His key role now is as research and policy adviser of the Usable Buildings Trust.



13

PETER ROGERS
DEVELOPER

The founder of Stanhope — and younger brother of architect Richard — was also the founding chairman of the UK Green Building Council.

Stanhope's commitment to sustainability includes pledges to reduce water consumption by a third and it asks builders on its projects to reuse or recycle more than 80% of construction waste.

Rogers is also currently a member of the government's steering group for the Code for Sustainable Buildings.



17

PETER CLEGG
ARCHITECT

As a founding director of Feilden Clegg Bradley Studios, Clegg was one of the earliest promoters of the green agenda in the UK, as evidenced by such FCBS projects as the HQ for Greenpeace and the New Environmental Office for the BRE.

Clegg's interest in the issue has extended to journeying to the Antarctic as a member of a Cape Farewell expedition to see the effects of

global warming first hand. His practice was the first to be awarded the Queen's award for Sustainable Development in 2003.

More recent projects such as the Woodland Trust headquarters focus on embodied and operational energy, while Bioregional's One Brighton addresses the wider aspects of building sustainable communities.



16

GEORGE MARTIN
BUILDER

Martin has built up an impressive CV in his 35-year career. He was environment director at Tarmac before joining Forum for the Future, where he remains an associate director. While sustainability director at BRE he led the development of a new Code for Sustainable Homes. Until the end of 2011 he was head of sustainable development at Willmott Dixon but has just taken charge of Coventry University's new Low Impact Building Centre, from where he will be disseminating advice on sustainable construction.



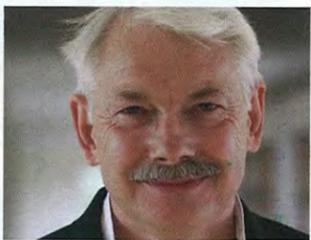
14

CRAIG JONES
SCIENTIST

Jones is the author of the Inventory of Carbon and Efficiency, the first book dedicated to the subject of embodied carbon.

While working at Bath University he created Iromental, the ICE database of embodied carbon in building materials, and he has advised on projects including the London Olympics and Masdar, Dubai's zero-carbon city.

Jones is currently a senior associate at Sustain where he advises building industry clients.



15

PETER HEAD
ENVIRONMENTAL CONSULTANT

Head's 2,700 Twitter followers know the former Arup director lives and breathes green issues. A recent post about the David Hockney exhibition aside, his tweets are a series of missives about how the world can be more sustainable.

An expert on sustainable development for cities "for the ecological age", he chairs the Institute for Sustainability charity and has already been lauded as a "Hero to the Environment" by none other than Time magazine for his work with the Clinton Carbon Positive Programme.



18

PETER GUTHRIE
ENGINEER

Guthrie worked on infrastructure projects around the world before becoming the UK's first professor in engineering for sustainable development in 2000.

He is now director of the Centre for Sustainable Development at Cambridge University, researching sustainability assessments for large projects. Guthrie supervises PhD research on sustainability in international development and is the director of a research programme on energy policy and efficiency in the built environment.



19

PATRICK BELLEW
ENGINEER

A founding director of Atelier Ten, which itself was a founding member of the UK Green Building Council (UKGBC), Bellew has been on UKGBC's advisory board since its inception.

He has particular expertise in thermal mass energy storage technologies and high efficiency radiant conditioning systems. The RIBA made him an honorary fellow in 2001 recognising his success in integrating the finest architecture and technology.



Atelier Ten's current projects include Gardens by the Bay in Singapore with Grant Associates and Wilkinson Eyre.



20

JULIAN ALLWOOD
ACADEMIC

One of the foremost academics in the sustainable materials field, Allwood joined Imperial College in 1996 as a lecturer in mechanical engineering. He moved on to Cambridge University in 2000.

Allwood received a £1.5 million research fellowship to lead work on achieving global carbon emissions targets for steel and aluminium, which runs until 2013.

He is a lead author of the fifth assessment report of the intergovernmental panel on climate change.



21

MICHAEL PAWLYN
ARCHITECT

Pawlyn set up Exploration Architecture in 2007 to focus on radical approaches to environmental sustainability.

Formerly, he worked at Grimshaw Architects, where he worked on the Eden Project.

In 2006 he represented Grimshaw as a founder member of the UK Green Building Council and in 2007 was elected as a committee member of The Edge, a think-tank addressing political, social and professional issues.

His book, Biomimicry in Architecture, was published last year.



22

SUE ROAF
ACADEMIC

Now a professor at Heriot-Watt University's school of the built environment, Sue Roaf's research interests include low-carbon building design.

A trained architect and the author of a number of books on sustainability, she is perhaps best known as a designer of the first ecohouse to feature an integrated photovoltaic roof.

She is the co-chair of the Westminster Carbon Counting Group as well as the international Teachers in Architecture organisation.



23

GUY BATTLE
ENGINEER

Battle founded engineering consultancy Battle McCarthy and specialist sustainable business consultancy dcarbon8, which was bought by Deloitte in 2010.

He now leads Deloitte's sustainability team across the UK, giving him a new sphere of influence. He helps leading developers reduce the embodied carbon in their buildings and is working with government to ensure this is not overlooked when the zero-carbon targets for residential and commercial buildings take effect in 2016 and 2019.



24

ADRIAN LEAMAN
CONSULTANT

Leaman has worked with Bill Bordass for 25 years. While Bordass focuses on technical issues, Leaman has concentrated on the human side — studying the relationship between occupant behaviour, management practices and client requirements.

Since 1987 he has been managing director of consultancy Building Use Studies and is secretary and co-founder of the Usable Buildings Trust, which puts independent results from building performance studies into the public domain.



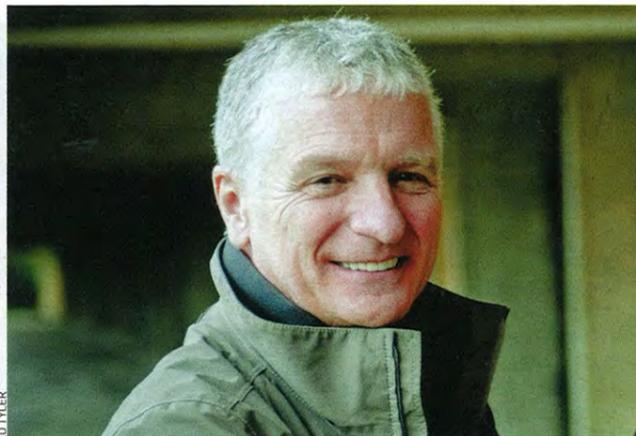
25

JOHN ASHTON
CLIMATE DIPLOMAT

Ashton describes himself as "equally at home in the worlds of foreign policy and green politics". Having spent most of his career in the Foreign & Commonwealth Office, where he founded the Environment Policy Department, it's easy to see why.

In 2002 Ashton set up the independent think tank E3G where he is a director. He is now on secondment as Special Representative for Climate Change for UK Foreign Secretary William Hague.

He is a visiting professor at Imperial College.



26

RAB BENNETTS
ARCHITECT

Bennetts founded Bennetts Associates in 1987 and has been responsible for many projects that pioneered sustainability from the PowerGen Headquarters (1991) to Wessex Water Operations Centre (1998) and Camden Council's headquarters, now on

site at King's Cross. Bennetts' recently completed remodelling of the Royal Shakespeare Theatre and reduced its carbon emissions by 20%.

He was one of the founder members and funders of the UK Green Building Council and is the only architect on its board.



27

CHRIS TWINN
ENGINEER

An Arup director and fellow with 32 years' experience, Twinn is a world leader in sustainability and in constant demand as a speaker.

He specialises in the design and delivery of environmentally sensitive buildings and his CV includes high-profile schemes such as Bedzed and Kingspan Lighthouse in Britain and Korea's first zero-energy house.

An RIBA honorary fellow, he has served on many professional and policy advisory bodies including Cobe.

**Wolfgang Feist** founded the Passivhaus concept.

Green innovators from overseas

Tougher regulations and more committed politicians have seen sustainability thinking advance at a much greater rate outside the UK. While we are fast establishing a reputation for innovation in sustainability, many of the field's most influential pioneers have come from overseas.

The definition of sustainability came from Europe in 1987, in a report by the commission named after **Gro Harlem Brundtland**. The former Norwegian prime minister is now special envoy on climate change to the UN secretary general.

Passivhaus is another European concept, conceived by Germany's **Wolfgang Feist**, and now the world's

fastest growing energy performance standard. Feist founded the Passivhaus Institute in 1996 and remains its director.

Despite consuming more oil than any other nation, the US has produced several notable sustainability advocates. Former presidential candidate **Al Gore** is one of its most high-profile proponents of sustainability. His campaign to raise awareness of global warming became the subject of the 2006 documentary *An Inconvenient Truth*.

Rocky Mountain Institute chairman and chief scientist **Amory Lovins** has been equally influential, publishing numerous books and papers on energy efficiency and renewable energy while

advising some of the world's largest corporations and governments.

Europe and the US have dominated the field to date. But sustainability pioneers can also be found in the world's developing nations. **Marina Silva** is an environmentalist and Green party presidential candidate in Brazil who worked with **Chico Mendes**, a rubber tapper who was assassinated for defending the Amazon rainforest from loggers.

Former environment minister of Barbados **Elizabeth Thompson**, is executive coordinator of the Rio+20 United Nations conference on sustainable development.

Even China has its high-profile

sustainability supporters, notably environment minister **Zhou Shengxian**, who has warned that the country's pollution problem is threatening to stifle its economic growth.

As more and more nations recognise the merits of a sustainable approach, not least the economic opportunities offered by the growth in green industries, innovators will emerge from a growing range of locations.

The UK has made good progress in recent years. But when countries such as China signal their intentions to change, there can be no complacency if we are to maintain our position in the increasingly competitive global rankings. *Mark Wilding*



28

PAUL EDWARDS
DEVELOPER

Having joined Hammerson as head of sustainability from Bovis Lend Lease five years ago, Edwards was tasked with embedding the S-word into the developer's culture. Since then, the firm has picked up a trio of Bream excellent certificates while it has achieved a 21% reduction in carbon.

A mechanical engineer — he spent five years with Arup working in Australia, the US and Asia — Edwards is a London Sustainable Development Commissioner.



29

KOEN STEEMERS
ACADEMIC

The head of the Cambridge Department of Architecture is an architect and environmental design consultant. Under Steemers' leadership, the school is increasingly centred on the environmental standards of buildings and cities.

Steemers is the author of 10 books including *Sustainable Urban and Architectural Design* (2006) and *Environmental Diversity in Architecture* (2004).

He is also a director of Cambridge Architectural Research, which finds real-world applications for the products of academic research.



30

ZAC GOLDSMITH
POLITICIAN

After 10 years as editor of Ecologist Magazine, the charismatic Goldsmith was elected as a Conservative MP for Richmond Park & North Kingston in 2010.

A tireless campaigner who uses his connections to further the environmental agenda, he has received the Green Cross International's Global Green Award for international environmental leadership. For those wishing to emulate him, Goldsmith's super-green country estate, Walreddon Manor on the edge of Dartmoor, has just been put up for sale.

31

BILL GETHING
ARCHITECT

Gething worked with Feilden Clegg Bradley for 29 years before setting up an independent architecture and sustainability consultancy in 2009.

He recently completed a report for the UK Technology Strategy Board to review the projected impacts of climate change on the built environment and the opportunities for the industry to adapt. He is also working with the Energy Savings Trust on improving the thermal performance of the existing housing stock.



32

BLANCHE CAMERON
CAMPAIGNER & ACADEMIC

Cameron was an architect before spending two years getting hands-on experience of sustainable construction as a builder at the Centre for Alternative Technology (CAT) in Machynlleth, Wales.

She subsequently became a senior lecturer at CAT and

was founding director of Reset Development, a charity set up by CAT staff and students to teach ecological design approaches to the buildings sector. Cameron is also a member of the All-Party Parliamentary Committee on Biodiversity.



33

JOHN CONNAUGHTON
QUANTITY SURVEYOR

A former chair of the UK Construction Industry Council's environment committee, Connaughton has more than 28 years' experience in the construction industry and has worked tirelessly to promote sustainability.

During his career he has advised clients including the Carbon Trust and the Waste & Resources Action Programme. He developed the sustainability services division at Davis Langdon and oversees sustainability training. He writes and lectures widely on sustainability.

34

SALLY HANCOX
DIRECTOR OF GENTOO GREEN

A stalwart in the housing industry, Sally Hancox is best known for her work making housing provider Gentoo a leader in sustainable building.

She was awarded an MBE in the 2012 Queen's New Year's Honours for services to reducing carbon emissions and fuel poverty in social housing, and it is thanks to Hancox's tireless work that Gentoo was named in the Sunday Times best green companies list for four consecutive years. Hancox is currently working with government on proposals for the Green Deal, specifically for social housing.



35

SUE RIDDESTONE
DEVELOPER

A member of mayor Boris Johnson's London Sustainable Development Commission, Riddlestone has lobbied to make the 2012 Olympics the most sustainable ever.

With her husband Pooran Desai, she helped write the One Planet Olympics strategy — detailing solutions for zero waste, sustainable transport and low-carbon strategies. She has also worked with Cabi to establish what architects and developers should expect an eco-town to look like, drawing on her experiences on projects in China and the USA.

36

ANDREW FORD
BUILDER

The technical director of Mott MacDonald Fulcrum is a mechanical engineer by training and has worked on a series of innovative buildings, specialising in low-energy design solutions.

His work includes the Elizabeth Fry Building on the UEA campus, built in 1994 and still the lowest energy non-domestic building in the UK.

A tireless networker (he has more than 300 connections on LinkedIn), Ford is currently president of the Chartered Institution of Building Services Engineers.



The Prince's Foundation's Natural House.

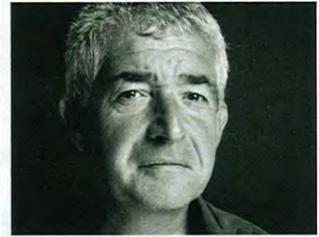
42

TONY JUNIPER
SUSTAINABILITY ADVISER

Juniper works as a senior associate with the University of Cambridge Program for Sustainability Leadership and is a special adviser to the Prince's Charities International Sustainability Unit.

He works with international companies on sustainability issues. And he enjoys a high, and positive, public profile thanks to his time as director of Friends of the Earth.

He is also on the boards of 10:10 and Climate for Ideas, and advised the Science Museum on its new climate-science exhibit, Atmosphere.



37

JONATHAN SMALES
CONSULTANT

A former managing director of Greenpeace UK and a founder of the Earth Centre Charitable Trust, Smales has serious environmental credentials. He describes himself as an "urban and environmental geographer and sustainability specialist".

He co-founded sustainability consultancy Beyond Green in 2001 and now continues advising clients while overseeing the company's growing property development portfolio. He sits on Cabi's national design review panel, specialising in large infrastructure projects.

38

SUNAND PRASAD
ARCHITECT

No RIBA president did more to promote a green agenda while in office than Prasad.

He is a member of the Green Construction Board and continues to explore sustainability strategies through such projects as Penoyre & Prasad's recent retrofitting of a 1992 house in London's Docklands to reduce its carbon emissions by 80%.

Prasad is also a trustee of Cape Farewell, a charity committed to instigating a cultural response to the onset of global warming.



Prince ploughs on

Hard to place but significant nonetheless, Charles may polarise opinion but his contribution to sustainability is unquestionable.

Whereas much of the sustainability sector has focused on technology's potential to reduce our carbon consumption, the prince has sought to promote a more environmentally friendly way of life.

His most recent building project, Sherford, in south-west England, due to be completed in 2020, has been hailed as the greenest settlement in Britain. The prince's advisers have suggested that cars should be banned from some areas and three-quarters of buildings fitted with solar panels.

True to the prince's view that we need to change our

way of life from the food we eat to where we live, an organic farm is planned for the 160ha park along with cricket pitch and bowling green.

Many of the prince's ideas were first tested at Poundbury in Dorset where high-density, mixed-tenure residential areas prioritised pedestrians over cars. However, the town made no attempt to dissuade people from driving and its architecture prioritised tradition over energy efficiency.

In the last decade, the Prince's Foundation has emerged as a key player in the sustainable homes debate. Last year's unveiling of The Natural House at the BRE Innovation Park epitomised the foundation's approach, eschewing high-tech solutions in favour

of natural materials and traditional building techniques to achieve an exemplary standard of thermal efficiency.

Recently the prince has used his role as president of environment charity WWF-UK to bemoan the loss of our "personal sense of connection to the natural world".



48

JONATHAN HINES
ARCHITECT

A director of Architype for the past 22 years, Hines has a particularly distinguished record of improving environmental performance in the education sector.

He completed work on Oak Meadow Road school in September of last year — the country's first Passivhaus primary school.

Hines also headed the team behind the Genesis Project at Somerset College of Arts and Technology — a building which employs such technologies as rammed earth, straw bales, cob walls and clay blocks.





39

KLAUS BODE
ENGINEER

Growing concern about the environment prompted Bode to co-found engineer BDSP in 1995. Its projects have included the 2012 Olympic Velodrome, One Airport Square in Accra, the Ningbo masterplan in China and Project Zed in London, Toulouse and Berlin.

He leads the BDSP environmental group focusing on environmental design, product development and industrial liaison. He teaches the AA's environment and energy postgraduate course and is an adviser on the LSE's cities programme.

40

SIMON STURGIS,
ARCHITECT & CARBON
CONSULTANT

Sturgis leads Sturgis Carbon Profiling LLP, a consultancy specialising in embodied and whole-life carbon assessments for buildings.

He is a member of the RIBA Sustainable Futures Group, the BCO Environmental Sustainability Group, and is an adviser to the UKGBC.

The consultancy's clients include the WWF, British Land and the Environment Agency. SCP does policy work for government and organisations such as Westminster City Council and English Heritage.



41

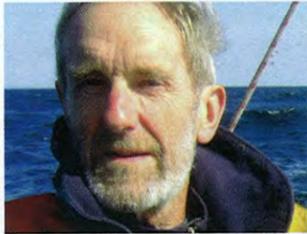
POORAN DESAI
DEVELOPER

Having set up sustainable development company BioRegional Development Group in 1995 with his wife Sue Riddlestone, Desai built a string of pioneering housing developments, most recently a Fat-designed block at Middlehaven.

He is also behind a paper-recycling company and a charcoal-making firm. He has helped write three books on sustainable living and runs a sports car that guzzles nothing more than waste cooking oil.



Fat's housing block for the Bioregional Development Group at Middlehaven in north-east England.



43

DAVID LEA
ARCHITECT

Over the course of a 40-year career, Lea has consistently placed environmental concerns at the heart of his practice.

His work for the Centre for Alternative Technology undertaken in collaboration with Pat Borer has been particularly pioneering.

They completed the Wales Institute for Sustainable Education training facility at the CAT campus in 2009 — their largest building there to date. This made extensive use of hempcrete and rammed-earth technology.

44

HOLLY KNIGHT
ENGINEER

Australian Knight joined the Olympic Delivery Authority in 2008 as an energy and water manager before taking over as its principal sustainability manager last year.

Her role includes reporting on what people have learnt working on the 2012 Games to take into new projects at home and abroad.

Her CV includes a stint at environmental consultant Entec and she is also a director of Eco Chevalier, a sustainability consultancy for the construction industry.



45

DAVE RICHARDS
ENGINEER

A director in Arup's building group in London, he works with the likes of Hadid, Hopkins and Bennetts on projects around the globe.

Turned on to sustainability while working on the Herne municipal training centre in Germany in the early 1990s, he evangelises to clients about his commitment to low-impact buildings. Recent projects include the Yale School of Forestry and he is currently leading the environmental design of The Crystal, a Siemens project showcasing urban sustainable technology.

46

SARAH CARY,
URBAN DESIGNER

Educated in London and Austin, Texas, Sarah Cary's career has taken her from the US to the UK, where she has pioneered the sustainability agenda for major developers.

Now at British Land, where she is tasked with greening some of its largest developments including Make's controversial design for a new building at Broadgate, she has become a well-known face on the conference circuit, making a name for herself working with real data rather than greenwash.



47

MILES KEEPING
PROPERTY CONSULTANT

Keeping spent 11 years as a senior lecturer at Oxford Brookes University working on property sustainability issues before joining the private sector as partner at King Sturge in 2008. He is now director and head of sustainability at property consultant GVA.

Keeping, who sits on the editorial boards of three journals, also chairs the Investment Property Forum's sustainability interest group and the UK Green Building Council's policy committee. He is a chartered surveyor and a chartered environmentalist.

**CREATING THE
SUSTAINABILITY 50**

Our first task was to invite nominations from architects and engineers whose work demonstrated a strong engagement with sustainability. Inevitably, we found that many of those we had invited to participate — including Rab Bennetts, Justin Bere and Sunand Prasad — were themselves nominated.

We asked our panel to nominate across a range of categories: architects, engineers, politicians, campaigners, scientists and developers.

Those with the highest public profiles, like Jonathon Porritt and George Monbiot, tended to receive the most nominations but in choosing the final ranking we tried to give the greatest weight to people who are having a direct impact on the delivery of a sustainable future today.

This is a list of people working in the UK but figures from overseas obviously also have a significant impact on the UK's sustainability agenda.

Some of the most influential people are listed in stand-alone boxes. We would particularly like to thank Mel Starrs from PRP for her advice in choosing the final ranking.

This, of course, is our list and many readers will disagree with it. Do let us know how you would have ranked it differently.



The pioneering Bedzed development.



49

JUSTIN BERE
ARCHITECT

An early leader in the adoption of the Passivhaus technical standard in the UK, Bere is advocate of ecological and ethical design. His practice Bere: Architects built the UK's first Code 6 zero-carbon Passivhaus, the UK's first non-domestic Passivhaus retrofit and London's first Passivhaus. Bere recently won the BRE's Passivhaus competition for low-cost social housing on the BRE's Watford Innovation Park and is working on larger-scale projects and research.



Bere: Architects' Larch House was the UK's first zero-carbon, low-cost Passivhaus.



50

RICHARD GILLIES
RETAILER

The director of Marks & Spencer's Plan A — "because there is no plan B" — initiative joined the retailer in 1984. He oversaw the launch of Plan A more than 20 years later. It aims to make M&S the world's most sustainable retailer in three years' time.

Started in 2007, the plan aims to involve customers with issues including climate change, health and being a fair partner. M&S was the first major high-street chain to charge for plastic bags in 2008. The £4 million it collects is reinvested in green charities.