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SUSTAINABLE BUSINESS

THE TIMES



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BUSINESS PRACTICES

No half measures

When it comes to implementing sustainable business practices, companies need to go all in if they want to reap the rewards

Richard Pallardy

oni Mitchell's iconic 1970 song *Big Yellow Taxi* pleads: "Give me spots on my apples but leave me the birds and bees." At the time of its release, this protest at the widespread use of chemical pesticides seemed like a Hail Marv. Would farmers and their counterparts in other industries heed this call for an ecologically friendly version of capitalism?

Now, more than half a century later, corporations are doing just that, having started to integrate more sustainable practices into their business models. What's more, they have found that, in an environmentally conscious marketplace, sustainability can be good for business.

Shel Horowitz is the founder of Going Beyond Sustainability, a consultancy which guides businesses toward greener practices. He traces the origins of this movement to the publication of Rachel Carson's Silent Spring in 1962. This prescient volume detailed the alarming effects of pesticides on the environment and precipitated a groundswell of activism to hold industry accountable for its effects on the environment.

The voices of consumer activists remain an essential motivator today. Legislative efforts such as the | stitute for Corporate Social Innova-UN's Sustainable Development the UK and the EU's Environment extra impetus. But many companies now undertake sustainable initiatives of their own volition. Taking responsibility, it seems, is just good business nowadays.

Across industries, sustainability is increasingly a vital aspect of most consumer-facing businesses. Half measures no longer cut it.

"If it's treated as a nice-to-have, it fails. Ultimately, it is not successful for the business, its reputation or its | burn, founder of sustainable brandobjective - financially, socially or environmentally," says Noa Gafni,

satisfaction as the main benefit of sustainable business practices



executive director of the Rutgers Intion. And there is growing demand Goals, the 2021 Environment Act in for accountability. Auditing bodies now play a crucial role in certifying Action Programme have provided sustainability initiatives, providing treated as a nicethe public with an objective mea ure of their success.

"Greenwashing is real," Gafni continues. "But companies are taking bigger steps to ensure they aren't doing that. They're partnering with external auditors to look at where they're doing well and where they can improve.'

Consumers are becoming aware of greenwashing, observes Tara Miling company Ethical Swag. "They will break off relationships with brands that don't take their stated commitments seriously," she says.

Robert Bird is Eversource energy versity of Connecticut. He says that some companies will try to greenwash, avoiding the certifying body. greening their operations. "But the certifying body will find arc towards improvement," he says. Sustainability initiatives work best

If sustainability is to-have, it fails. Ultimately, it isn't successful for the business, its reputation or its

be implemented across all primary activities, as well as secondary ones like infrastructure, technological development and procurement,' chair in business ethics at the Uni- says Juan Carlos Lascurain of Lascurain-Grosvenor Sports Brokerage. which helps stadiums globally in

"They cannot be siloed," explains out what's going on and makes the Gafni. "That's the tricky part. It reproblems public. Then the company | quires levels of collaboration that orimproves. There is some cat and ganisations aren't necessarily used mouse involved, but there's a long to. It's important that they partner internally - but also externally."

The effect of these initiatives is

market. "Consumers aren't just concerned with sustainability practices in stores," Bird says, "They're also interested in the green credentials of the supply chains."

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"Every business has an upstream and downstream in their supply chain, where their business is the crux," savs Stacy Savage, founder and CEO at Zero Waste Strategies in Austin, Texas. "All the operational decisions taken by the crux affect the chain. The buver holds all the cards. If the current vendor can't do what they ask, they can look for a new vendor."

She cites the example of a business that wants to avoid using cardboard in its shipping operations. It could demand that its shippers use reusable, collapsible crates, reuse them and ask clients on the receiving end

Unless suppliers get onboard with this, they "won't get access to the best partners or the best contracts. They may be excluded from procurement opportunities". So says Simon Glynn, co-lead of the climate and sustainability platform at consulting firm Oliver Wyman.

Still, value chain implementation varies by industry. "For a business without physical products, like a when they are distributed evenly not solely internal. Supply chain SaaS business, I'd imagine that susacross the value chain. "They should | pressure has created a competitive | tainability initiatives sit lower on •

Labs, a certified B Corp.

to bake sustainable principles di- example of British consumer conrectly into their operations, it can glomerate Unilever. be more difficult for legacy corporations with worldwide operations to incorporate them easily.

"Companies that are deeply attached to a product or service that is inherently unsustainable require a vou not only have the vision from the lowest-hanging fruit. fundamental change in how they the top but also champions in operate," cautions Bird, "They're | different functional areas to under- | now, What we are seeing is a clear going to have the most difficulty stand how to get things done from a move away from a linear, destruct making changes. Companies that practical standpoint." are more B2B are also less likely to feel the pressure from consumers, and industries that have a very slim profit margin may not be able to in- tating sustainability in the corpovest in sustainable practices."

corporations are incapable of inte-

as the main obstacle to sustainable business practices

of UK consumers are willing to consider truly sustainable



Location can also play a key role. When you're trying to get something like this off the ground, it requires levels of collaboration that organisations aren't necessarily used to

But while newer companies tend | their value chains. Gafni cites the | their principles, they will stay and

"Their former CEO, Paul Polman, | tional knowledge pool. was a driving force," she says. "But

This point - that leadership is important on all levels – is echoed into a product." by most people who work on facilirate world. Directives from the least" break even. But sustainabili But that does not mean that larger | top can certainly have a major im- | ty can of course conserve money pact. But so too can pressure from lower-level employees.

"It can come from all angles," says Savage. "The biggest pressure gen- | come successful, use them to fund erator is when you have a scenario some of the deeper, more compli where your employees say, 'Hey, we cated initiatives. Keeping profitahave 3,000 employees and a cafeteria. Why aren't we composting?"

When these messages reach upper management and combine with ex- advises Horowitz ternal pressure from environmental advocates, it pressures middle man- gy-efficiency retrofit of the Empire agement to implement real change. State Building in New York City. "It That, she claims, is where consul- was a three-year payback. That's a tancies such as hers can help the 33% return on investment. A fastoften bewildered functionaries to food restaurant might have a marmake meaningful alterations to a gin of 3% to 5%," he enthuses. The company's practices.

translates into employee retention. has attracted a suite of new tenants Millennial and Gen-Z employees are with deep pockets. insistent on seeing their values reflected in their employers' practices. | ance (ESG) issues are also signifi If they consider that their values are cant factors in attracting new organisation, taking their institu- now one of the top-five indicators to employees. If, though, they see that | next 10 years," notes Savage. "Many

grating sustainable practices into their employers are aligned with reinforce those beliefs and practices, contributing to the organisa-

But where should proactive lead their sustainability plan was also ers start? While the goal is sustaina supported by people in middle bility across the entire value chain management. It's important that waste management is perhaps

> "There's a whole circular economy tive economy," says Savage. "In stead, you transform your waste

She suggests that the goal of these types of projects should be to "at and even be profitable.

"Focus first on things that will earn money, quickly. As those bebility in focus means these efforts are less likely to be the victim of budget cuts when times are tough

He cites the \$31m (£26m) ener adjustments have created millions Responsiveness to these demands in annual savings, and the building

Environmental, social and govern in conflict they will simply leave the investments. "ESG standards are tional knowledge with them and ne- investment firms and shareholders cessitating their former employers as to whether your company will to plough money into training new still be viable and relevant in the

The business case for sustainability

Sustainability is a long game. Superficial sustainability measures no longer cut it in a heavily scrutinised market. Slapping a green label on a product or service simply doesn't pass muster anymore not with consumers, not with activists, not with business partners.

By contrast, carefully considered initiatives that adjust practices across the value chain can have profound effects on business success. While decarbonisation may entail an initial investment, it often means savings down the line - if not an actual profit.

Waste and energy-use reduction are among the most easily implemented sustainability practices. The savings accrued by these easy initial steps can be used to subsidise more difficult. industry-specific actions. What's more. pressure on suppliers can help to facilitate a competitive market where relationships between individual organisations are increasingly contingent on sustainable standards.

Perhaps most importantly sustainability can be crucial in securing investments for business expansion. Environmental, social and governance criteria are major factors for many investors today when deciding whether to divert funds to a particular organisation. Demonstrably sustainable practices are considered key indicators of future business success. They indicate a likelihood that an

organisation will comply with increasingly stringent environmental regulations, avoiding liability

These commitments are also appealing to a vigilant consumer base, which reacts poorly to unsustainable practices and rewards companies that can demonstrate their sustainable practices over the course of time.

Millennial and Gen-Z members of the workforce often look for employers that share their purported values. A visible and verifiable commitment to sustainable practices can help companies attract and retain talent. Lower turnover means that human capital – the resources invested in training employees and the resulting repository of institutional knowledge - stavs within the organisation. This can amount to significant cost savings in the long term

As beneficial as sustainable practices may be to a given organisation, their benefits to the world are even more important Corporate citizenship is now considered to be an unavoidable responsibility. Just as individuals ought not to hope to accrue direct benefits from behaving with decency and consideration towards their fellow citizens, there is now an expectation that companies will do the same.

Will these behaviours affect the bottom line in the near term? Perhaps Perhaps not. But pursuing practices that benefit the planet and its inhabitants will help to maintain a healthy ecosystem for people, for other living things and for business as well.

of these firms are shunning compa- | it's zero-carbon steel. The conversapolicies in place. That's huge if you want to expand your business."

whether it's profitable," says Bird.

Many of the benefits of sustainasomething differentiated because worth encouraging.

nies that aren't trying to get ESG | tions you're having with your customers are different and you have a more strategic relationship with "Once companies and their em- them. Your customers are now bondployees become used to a certain ed into buying from you. Decomvalue or a certain norm, they will moditisation doesn't necessarily use sustainable practices almost directly turn into a premium but it reflexively. And they won't have does turn into more stable relationto make the conscious decision as to ships, customer loyalty and deeper customer collaboration."

This ultimately translates into ble practices are intangible. "It good corporate citizenship. Whethchanges your relationship with your | er or not these projects make or save customers," says Glynn, "Imagine | money, they are likely to have posivou were selling a commodity like | tive impacts on the world at large. steel. Well, now you're providing | And that is definitely something

SUSTAINABILITY COMMITMENTS THAT WIN CUSTOMER LOYALTY Business factors that positively influence consumer trust in the UK Having a transparent, accountable and socially and environmentally responsible supply chair A strong public perception, record and reputation around climate change and sustainability A public commitment and positioning around sustainability and climate change, including net-zero commitments and greenhouse gas reductions Being a certified B Corporation 20% Receiving net-zero commitment verification Having a partnership with sustainability NGOs and charities othing can influence how much I trust brands' and businesses' commitment to climate change and sustainability



Tough climate: can businesses be green and fight inflation?

Consumers are finding it harder to shop ethically as inflation surges - companies must adapt to stay relevant

crisis intensifies, shoppers are finding it increasingly hard to be as ethical as \$700bn in 2030. thev'd like.

According to research by GfK, some 80% of consumers globally say that These firms must continue to develop them. Yet more than 30% of Europeans say they will put their own economic vice president consulting at GfK. security and wellbeing before environmental problems this year, with that rising to over 40% in the US and 50% in

This is forcing fast-moving consumer goods companies (FMCG) and tech and durables businesses to rethink their operating models - from the design of their products to the carbon emitters and the lifecycle environmental impact of their products is significant. Consumers expect them to take action no matter what the economic climate is like.

FMCG companies have been responusing more sustainable materials in cost of living crisis. their products. It's paid off, with the

ustainability is a growing pri- | from a decade ago and a figure pro- | or refurbish to prolong their lifespans. ority for millions of consum- | jected to increase to \$1tn in 2030. The | The trend of leasing as opposed to ers around the world, but as tech and durables sector has been inflation surges and the cost of living | slower off the mark but 'eco-active' revenue is still expected to exceed

Rethinking green business models

sustainability remains important to their sustainability agendas as shopping habits change, says Jutta Langer, "During the pandemic, many consumers had more time to think about their consumption habits and the spare cash to spend on ethical goods. Now, we are seeing a higher cost consciousness when it comes to these prod-

Customers are still buying green Lenneke Schils, global insights director way they engage with customers and | at GfK, adds, but many premium lifestyle brands in FMCG are losing market share as shoppers move to more affordable store own-label ranges.

"What sustainable looks like is also changing," Langer adds. "It is becoming less about 'cleaning up' and more about 'saving', be that using less energy sive when it comes to embracing sus- or water, reducing wasteful consumptainable business practices, from tion or recycling more. The trend is not cutting back on single-use plastics to | new but is being turbocharged by the

Companies are already changing their global eco-consumer market now practices. Appliance manufacturers to rethink their marketing as consumer worth \$800bn each year - a huge rise | are making products easier to repair | trends change. Greenwashing - when

selling goods is also gathering pace reflecting consumer desires to save money while cutting waste.

Brands like Bosch, BlueMovement Decathlon and Ikea are just a few big names starting to adopt the rental model. Meanwhile in the FMCG sector the success of the Too Good To Go app - which lets shops sell goods near ing their expiry dates at a discount oves there is true consumer value in curbing food waste.

As household budgets are squeezed ompanies might be tempted to hold back on product innovation, but that would be a mistake. FMCG and tech and durables companies should continue to take the lead, not wait for consumers o That may make shopping slightly less

onvenient initially - as happened when New York State banned single-use plastic bags in shops, or the EU banned plastic straws – but consumers will ulti mately adapt and respect the brand more for sticking to its principles. This is especially true when embedded in he right communications campaign.

Get your messaging right

The messaging around sustainability is of course, key and companies will have a brand exaggerates its green creder tials - is a growing problem as more companies adopt environmental policies under pressure from campaigners and shareholders

According to GfK's research, more than 60% of European shoppers distrust what companies tell them about their sustainability practices. When you consider that one in four has doubts about the proper functionality of green products, it seems this trust issue could become a real dealbreaker for brands.

"If companies are making a huge effort to change their business model and products and consumers don't 'buy it', it's a key challenge," says Schils. "Trust is vital and transformational marketing will play a big role here."

FMCG companies must use clear and compelling communication to help products stand out, empowering green consumers who want to find sustainable products. There's also a need for better guidance and classification of products at the point of sale. Shopping involves thousands of small decisions and people don't always have time to process what is printed on packaging or written in online product descriptions

"One in four people globally have never even seen zero carbon labels or products, which is a huge shortfall," says Schils. "Closing this implemen tation gap is key to keeping customers

A massive opportunity

strike, but companies have the market behind them. Last year, some 52% of shoppers globally said that sustainability had become more or much more important to them because of the pandemic. Meanwhile, consumers who prioritise environmental concerns when they shop accounted for 28% of the European population in 2021, up from 18% in 2019.

This year, the cost of living crisis will cause a - temporary - dent in this growth path, as shoppers are forced to deal with short-term worries. Putting

of consumers globally say mportant to them

RACONTEUR.NET — (7)—05

of Europeans are prioritising economic security and wellbeing over environmenta

of European shoppers distrust what companies tell them about their sustainability practices

green products

of European shoppers have doubts about the proper functionality of

ethical goods within the reach of many should be a key priority for companies and retailers alike. But in the longer erm, the large-scale shift in consumer attitudes presents a huge opportunity or businesses bold enough to take it.

GfK provides key insights on global sustainability trends and factual behaviour change, enables effective onsumer targeting and supports clients in their sustainable growth strategy. The organisation has found an observable disconnect between how onsumers want to buy and how they actually buy.

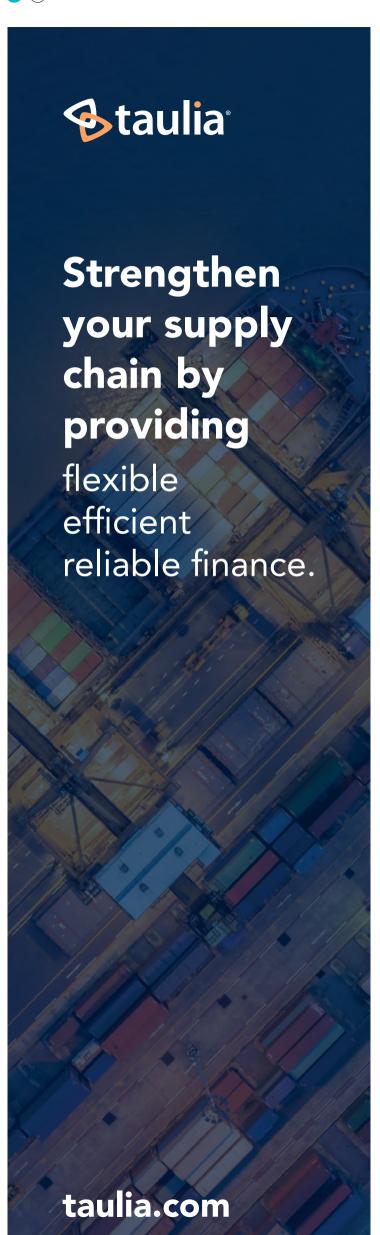
Overcoming this gap will be key to capitalising on all that untapped otential, Langer says. "More than half of consumers globally could fall into the eco-active category by 2029. But only brands that understand how remove the barriers to sustainable retail behaviour will capitalise on this ige growth," she says.

"To do so they must increase the pereived value of sustainable products, nsure their effectiveness and use and mpelling communication to create trust and to drive their message home."

Want to learn more? Join GfK's free webinar 'Green ambitions, golden opportunities: Sustainability in times of instability' on September 27th. Sign up today at gfk.com/fmcgsustainability



Growth from Knowledge





Supply chain transparency is vital to meet sustainability goals and ensure companies work with partners who share their values. But how practical is it to check everyone's credentials?

Georgia Lewis

inaging a supply chain is no easy business. And the task is expanding, as more businesses check up on the sustainability credentials of their partners.

If a supply chain has many stakeholders or crosses borders, gaining the necessary transparency can be a daunting prospect. Understandably, many companies have prioritised getting their supply chains moving again after global lockdowns.

Broad definitions of sustainability can further complicate the process. Does it cover pay, working conditions and human rights, for example, or does it mean a tight focus on carbon footprint reduction and environmental stewardship? If it's going to work, then examining the sustainability practices of supply chain partners needs to be an embedded practice from the outset

rather than an afterthought Ralph Kirkwood is head of procurement at electric bike manufacturer FreeFlow Technologies. He thinks sustainability needs to be considered at the point of contracting. "This is where you have the most leverage to demand output from suppliers to align to your require ments. That might be in relation to the product, service specification of wider sustainability goals."

"tricky" to assess commitment to and dangerous factories. sustainability during the tender evaluation. But, he says, these questions need to be asked at the outset | that when the business launched. to help companies assess if first-tier suppliers will "roll your commitment down the supply chain".

That requires leadership, "Suppliers want to see that the ultimate customer is serious about sustaina- be taken to the back of the stand and bility issues," says Malcolm Harrison, CEO of the Chartered Institute | as if it was an afterthought," he says. of Procurement and Supply. "The

Sustainability is a long-term goal. That means continuous improvement is key in the short term. Then it's about hitting targets in

the long term

ultimate customer is often a larger organisation with more resources than other companies in the supply chain. A commitment to support and educate smaller suppliers is a

Increased public awareness of sustainability issues can also spur companies to examine their supply chains more closely. The textiles industry is one example of this, particularly after many clothing manufacturers were exposed in the media Kirkwood admits that it can be for poor working conditions, low pay

Rob Webbon, CEO of sportswear manufacturer Presca Sports, says few companies were creating sus tainably made fabrics.

"We would go to trade fairs and ask exhibitors if we could see their recvcled or renewable fabric lines. We'd shown a small sample of hangers -"Fast-forward a few years and now every textile company is desperate to show how sustainable they are. In many ways that's great for the industry. But it does mean the market is much more open to greenwashing

and we need to be aware of that." What, then, is the best way to get to the truth? Is it better to build con fidence in that relationship by getting to know suppliers and seeking assurances on the basis of trust, or to set firm metrics that suppliers are expected to hit?

Max Winograd, VP for connected products at manufacturing specialist Avery Dennison, says both approaches are important. "Trust is a foundational element in every business relationship. But firm metrics are needed to ensure that these standards are adhered to.

means that companies can prove where their components originated. demonstrate regulatory compliance | and better understand supplier perin all markets where products are formance, which can all reduce the made and sold, and show that carbon footprint," says Jeff White, environmental and ethical consid- co-founder and CEO of location inerations have been followed.

For Harrison, metrics are essential, even if they're not used as hard | can | help | companies | understand targets. Instead, they can be useful | truck traffic patterns within their for showing progress, especially early in the relationship: "Sustainability is a long-term goal and, as With these insights, organisations such, continuous improvement is could address logistics issues to rekey in the short term. Then it's about | duce overall carbon emissions." hitting targets in the long term."

At flooring manufacturer Interface, a supplier code of conduct requires everyone in the supply chain the needle on achieving sustainabile to comply with relevant environmental regulations and conduct operations in ways to minimise the impact on the environment. The company is | ing tools like greenhouse gas invenhelping 26 priority suppliers to identify projects in their operations to re- assessments of their current imduce greenhouse gases and providing pacts through life-cycle assesstechnical support to reduce the ments," explains Meezan. "Given manufacturing carbon footprint.

carbon across that ecosystem."

cated, cross-border supply chains – where monitoring, oversight and possible, many businesses focus on communication are all more of a encouraging improvements by their challenge? Thankfully, this is where existing suppliers to match their technology can play a greater role. commitment to sustainability."

and collaborate on potential solutions or new approaches, including sourcing alternative raw materials,' says Erin Meezan, Interface's chief sustainability officer. "We're capturment data on the materials to better These assessments will form a baseline that allows our supply chain team to develop a strategy to reduce

Automating processes, such as questionnaires for stakeholders to complete during the movement of goods, and even live location analytics, can flag up risks. If compliance can be checked in real time, concerns can be managed before they ecome bigger issues.

ESG data across the value chain is an obstacle to sustainability

60%

supply chains

"With mobility analytics, compa nies can evaluate their supply chain warehouses or distribution centres. telligence provider Gravy Analytics.

"For example, location analytics supply chain and determine where bottlenecks might be occurring.

Interface's Meezan agrees with this, noting that leveraging real data "is the most effective way to move ity in our supply chain".

"We encourage our suppliers to measure their impacts by establishtories, as well as developing strong that the raw materials in our prod-"We share lessons we've learned | ucts contribute the bulk of our impact, life-cycle assessment data helps us - and our suppliers - under-

Introducing the right technology, along with fostering a culture of ing more detailed life-cycle assess- trust and open communication, can not only help companies choose the understand their carbon impacts. right partners but also retain relationships with existing partners.

As Bob Glotfelty, chief growth officer at supply chain fintech company Taulia, puts it: "Since changing But what about the often compli- suppliers can be disruptive to the business or, in some cases, isn't even



The win-win shift powering business performance

Embedding purpose can drive everyone and everything in your business - and help boost profits - argues **Becky Willan**, CEO of Given Agency

ofit at all costs has never | a question of intent, but of execution. served society - and thankfully it is no longer the primary aim driving all companies. Instead, purpose offers a platform for growth and a mandate to create value for the world, not just extract value from it.

The past three decades have seen a shift from the 'responsible business' agenda being built on compliance and corporate social responsibility. After the 2008 recession, a more integrated approach emerged focusing on impact, materiality and earning a positive reputation and relevance with customers. colleagues, and suppliers.

But the limitations of these approaches are now inspiring a more comprehensive, purposeful paradigm. The purpose-driven business has arrived, and its mandate is clear - profitably solving the world's problems.

This isn't altruism, it's good business and it brings benefits. Purpose-driven companies attract and retain the best talent, innovate more and enjoy greater lovalty from customers Alex Edmans, professor of finance at

London Business School notes in his book Grow the Pie how such organisations financially outperform their peers over the long term

most senior leaders in large and listed companies want in. However, recent research we commissioned from YouGov reveals employees don't always think their leaders are doing a great job of practising what they now preach.

This is what we call the purpose gap, highlighting a clear gulf between the ambition of senior leaders and the reality of workers' experiences.

Everyone in the boardroom may be talking about purpose but few are to always consider purpose. Start with embedding it effectively into their your board. After all, they are the people business strategy and culture. It's not | holding your executive team to account

And it means businesses are largely failing to reap the rewards that being purpose-driven generates.

Closing the purpose-gap

Our survey spoke to 2,000 UK employ ees and found 69% of those at large businesses felt their company's pur pose conflicted - or only partially aligned - with how it operates dayto-day. Worryingly, two thirds (64%) at large businesses also said their business had changed only a little, or not at all, since it set out its purpose.

These findings expose the challenge of translating inspiring ideas about a company's purpose into meaningful action. Purpose must mean comprehensive transformation, not just nemorable tagline. To succeed, a different organisa

tional muscle has to be exerted. This s tough work, it takes time, measured in years, not quarters. It demands serious questions about decision making nnovation, investments, and rewards So while CEOs want to lead pur

pose-driven organisations, most aren't ture how to go about it. In response we created the Given Insiders' Guide to Purpose, a free, open-source handbook to help CEOs and their senior leaders embed purpose into their businesses.

Five essential transformations

We have drawn on over a decade of experience working with complex organ isations serious about making their pur pose real to identify five critical compo nents of purpose transformation.

Change decision-making processe

2 Leadership
CEOs and senior leaders must be visible champions of your purpose. If hey're not, no one else will be. Involve hem in the transformation, invite them o find their own purpose and train hem to talk about their journey.

Colleague engagement

Durpose should change every conversation in your business, but people eed time to figure out what it means for hem and their team. Rally natural influncers. If around 15% of people are on board from the outset it creates a tiping point to stimulate lasting change

Brand and innovation

Brand innovation – involving pricng, product and performance – makes ourpose tangible for customers and nployees Businesses need not worry about accusations of 'purpose wash nless purpose only shows up in mar keting campaigns and PR stunts.

Metrics and measurement

b It's tough to measure purpose, but ke performance, it's multidimensional Do you really believe business success only defined by profit? Similarly, by educing purpose to a single measure ou risk pitting it against profit when the wo should be mutually reinforcing.

Download your free copy of the nsiders' Guide to Purpose







The building blocks of sustainable cities

How can we build the sustainable environments needed to adapt to the modern world?

split their working week between their offices and homes. But many of us live and work in buildings that lack sufficient ventilation and light, aren't designed to stay cool in our increasingly hot climate, and use environmentally unfriendly materials. So, how can we build spaces that are healthy for people and the planet?

Transition to sustainable materials

Buildings and the construction industry have a carbon dioxide problem. Figures from the World Green Building Council show that together. they're responsible for 39% of annual global CO2 emissions. Energy used to heat, cool and light buildings accounts for 28% of emissions, while the remaining 11% is the result of carbon emissions from materials and construction processes throughout the whole building lifecycle. To reach ambitious global climate goals, existing and future buildings must be redesigned to become more energy efficient, and we must transition to sustainable alternatives to concrete, steel, and aluminium - or find ways to lower the carbon footprint of these materials.

Improve ventilation to stop viruses from spreading

Despite our enhanced understanding of how airborne viruses spread, there is still currently no set of standards for mitigating the levels of bacteria or viruses indoors. Lone Feifer, director of sustainable buildings at roof windows company VELUX, says that mandatory ventilation standards must be enforced to stop the spread of respiratory illnesses indoors and the loss of workers through ill health. She adds:

important to your health than your GP; at VELUX we are striving to challenge traditional thinking and to bring | air to be exhausted and the buildawareness to how our buildings can be ing mass to be cooled. This process healthy for both people and the planet, encouraging better daylight and fresh energy efficiency of buildings.

3 Use technology to create a healthy indoor climate

Buildings of the future must be thought of as a system of interconnected parts | system of many different parts, includthat work together to optimise energy efficiency and the indoor climate. "You | architects and other specialist experts need to be able to have flexibility to contain heat in winter, but in summer, VELUX wants to build partnerships with you need shades or shutters that prevent the heat from coming in," says how to build sustainably using insights Feifer. Since 2017, VELUX has used an integrated digital system to ensure its | years of experience. The end goal is to roof windows, blinds and shutters work in perfect harmony to do exactly that. I for people and the planet Sensor-based ventilation tracks temperature, humidity and CO2 levels, and rentilates to keep the indoor climate healthy. Automatic heat protection ship with Effekt architects, Moe engiprotects homes from excessive heat by automatically closing blinds, awnings

4 Use light and cooling for better night conditions

Humans have a circadian rhythm, or a natural sleep-wake cycle, that is regulated by exposure to natural light hroughout the day. But many people live and work in buildings that don't give enough access to daylight, which can disrupt our sleep patterns and affect our health. Designers should be mindful of this and ensure that buildings are | visit livingplaces.velux.com designed to optimise exposure to natural light. Meanwhile, most European buildings don't provide sufficient ven-"Joseph Allen, the director of healthy | tilation to cool them down at night. The buildings at Harvard University, firmly | heat generated during the day builds

early 38% of UK adults now | believes your building operator is more | up and is absorbed into the building's surfaces and structure. Night cooling reduces energy costs and improves the

5 Build partnerships to create sustainable cities

Change needs to happen at scale, but the building industry is a fragmented ing investors, contractors, engineers As part of its Build for Life initiative each of these sectors to show them gathered through the company's 80 create liveable spaces that are healthy

To bring this to life, VELUX will unveil its Living Places project in Copenhagen in 2023 – in partnerneers and Enemærke & Petersen cor tractors. Living Places will showcase healthy homes with a significantly low ered carbon footprint. This new way of thinking proposes healthy and sus tainable housing that is affordable for many, due to the optimised choice of materials and easy assembly process. It encourages a more responsible, regen erative and collaborative approach.

Think about buildings in a new way,



ESG investing strategies are no longer just for ethical investors

Jennie Galbraith explains why the business case for ESG is increasingly compelling for investors

gnored. Arguably, all investors, and therefore all companies, are now aware of their environmental, social and governance (ESG) profile, whether or not they choose to discuss it. In the 18 months since Larry Fink, CEO of BlackRock, wrote his famous letter to CEOs, the idea that companies that prioritise ESG are purposeful

As a product of this trend, global investors are beginning to focus on portfolio-wide data rather than company-level data. They are also considering ESG in terms of the a measure of risk mitigation.

These shifts can be linked to the fact that the business case for ESG is now proven. Even hard-nosed and experienced investors can see that good ESG makes a stronger business. In other words, ESG investing strategies are no longer just for ethical investors.

This, of course, has been helped by a summer in which drought. fires and floods have hit wealthy nations as well as poorer ones. Climate change – and with it greater emphasis on ESG - has become unavoidable for governments and businesses alike.

Consequently, investors are looking to finance companies that will actively contribute to sustainable solutions and that will accelerate progress towards 'the just transition' - the move to a lowcarbon economy that doesn't disadvantage less-developed countrie and particular demographics.

Climate change is now being ac cepted as an environmental issue that will generate more regulation For example, the recently proposed EU directive on corporate sustainability due diligence emphasises the importance of human rights within supply chains.

But the very presence of regula tion is also helping to raise the standard for action. What was previously considered leading practice for investees is now seen as the minimum level of compliance. But | icrs.info

t is the impactful acronym | it can be debated whether regulahat can no longer be tion is being influenced by investors or vice versa

> choice: they can lead by example, taking proactive steps to drive ESG their value chain, like customers or

The question, then, for corporate leaders is not so much about wheth er or not to address ESG issues, but more about when they do so. Doing value it can create, rather than as it now means doing it at a lower cost and at a pace determined by the business, utilising voluntary frameworks. The alternative is being forced down a path by hard legislation, such as the UN Guiding Principles on Business and Human Rights and the Task Force on Climate-Related Financial Disclosures.

> The last word, which seems fitting, is on employees. ESG is of increasing importance to current and prospective talent in the financial services sector, but also more generally. If a person is going to commit part of their career and working life to a company, it is likely that they want to see evidence of alignment with their personal values. In this way, ESG can also act as a powerful tool for the attraction, retention and moti-



Jennie Galbraith Chair, Institute of Corporate Responsibility and Sustainability and



Short of universal KPIs, organisations are charting different paths to sustainability. But all agree that to be impactful, sustainability must be ingrained in the company ethos

Morag Cuddeford-Jones

ability is increasingly a feareports, with the trend for linking | their green credentials. sustainability performance to executive pay growing by the year. In a tive pay, compared to only 37% of North American boards.

Reporting and remunerating aca voluntary decision, based largely on recognised impacts on company effectiveness and brand perception; but mandatory reporting is on the UK's largest registered companies will need to report using Task Force

Despite this, there is still a surprisnot afraid to make sustainability claims that are based on creative one has all the answers. fudging of the numbers. And the regulators are taking note.

governance (ESG) account- houses in order. In July 2022, it what you're measuring pinned placed Asos, Boohoo and George at ture of many companies' annual Asda under investigation to verify

The carrot-and-stick approach of bonus versus litigation is a start. survey by Corporate Secretary, 60% But to bring about meaningful of European respondents stated change, sustainable behaviours their board tied ESG goals to execu- need to be embedded across the and then head of innovation a business. As what gets measured performance indicators (KPIs) at as cording to ESG performance remain granular a level as possible, across every team and department.

Nestlé UK & Ireland's Dr Emma Keller, head of sustainability, explains: "Breaking down the big longway. Already more than 1,300 of the term goals into tangible, actionable and meaningful goals at department-, team- or individual- level on Climate-Related Financial Dis- is essential if all the actions are closures in financial years starting to ladder up to the overall aim After all, reaching net zero and be coming a genuinely regenerative ingly large amount of greenwashing organisation that puts more back going on. Some companies are still in than it takes out is new territory - no one has been there yet, and no

What is clear is that, overall, there is an acceleration in the number The Competition & Markets Au- of companies taking steps to make thority (CMA) has sent a shot across | a measurable (and therefore, ac the bows of the industry to countable) impact on sustainability.

nvironmental, social and encourage corporates to get their But first, it's important to get the The big picture: a down, as well as the 'why'.

> "I prefer the word 'impact' to 'sus tainability', which is so overused and is conceptual. But the word 'im pact' is much easier to measure. comments Hannah Keartland, who was formerly financial director Cancer Research UK before launch gets done, this means setting key ing her consultancy as an out sourced chief impact officer.

"Look at procurement. If we buy this item, what is its impact? You can then look through the whole supply chain and say, 'What's the packaging? How was this produced? How was it transported? What

B Corp is measuring the

triple bottom line. It's a

change from a shareholder

model to a stakeholder model

the planet, water and waste in every | and other suppliers meet require single stage of that journey?' You

> can map that back.' There are myriad examples of how organisations are trying to codify their efforts to create a measurable and reproducible set of change. But they are often as differ-

Good provenance

ent as they are many.

Conventional raw materials are generally accepted to be more harmful to the environment and human health than organic raw materials. Weleda is committed to including 80% minimum certifiable organic raw plant materials and the team reports directly to the company's managing directors. The company is also certified by the union for ethical biotrade. meaning it must follow strict processes to meet requirements and submit to audits.

One of the most difficult elements of delivering a product or service that is sustainable through and through is ensuring that the supply chain meets exacting requirements. Fashion ecommerce site Farfetch insists on a stringent ethical sourc-

ments such as providing an environment that considers employee health and safety and complies with national laws. But the company readily acknowledges that "it is not always possible to monitor behaviours that lead to tangible and control the conditions of each individual involved in the produc tion of the products".

> Tom Berry, global director of sustainable business at Farfetch, would not be drawn on specific KPIs per department, only saying that: "Sustainability is a very broad subject and touches all departments. Each department needs to take owner ship and leadership of the elements it can most influence."

relies more on forging relationships than actuarial targets in order to inspire its staff towards sustainable oehaviours. Ruth Andrade is lead for giving, regenerative impact and organisational development at Lush.

"Our strategy is about building engagement," she explains. "If we have direct connections with the indigenous communities who are being affected by palm oil in Indonesia, then the people who are formulating the products have a vested ing policy, demanding that partners | interest - because they have a 🗗

lives and real relationships."

McLaren Racing is the first Formula One team to release a sustainability report. It is currently in the middle of discussing how introducing sustainability KPIs might work McLaren's director of sustainability and says that KPIs for procurement are under discussion. KPIs under consideration include incentives to work with key suppliers – those with the greatest impact on the organisaimplement change. The aim here is

Becoming a genuinely regenerative organisation that puts more back in than it takes out is new territory – and no one yet has all the answers

56%

stead, it's about real people, real cial impacts of their supply chain".

All in the mix

Naturally, many companies are in their outputs or reduce carbon in | in the future. their production processes.

Weleda's product development 65% recycled material or bioplastics | that should support a more sustainin its natural cosmetics primary dishes that create waste in some lo- packaging (based on the weight of all packaging produced).

"We are going to do this product carbon footprint that includes all have this goal anchored in the corsustainability manager at Weleda.

non-tangible goods, Emma Swain, group head of legal at Unlimited That's where we're at currently." Group, explains that advertising across its business. Kim Wilson is | production is an area that can have | classrooms with action. At Brighton relatively high carbon emissions. Linking to Ad Net Zero, the advertis- litter pick, part of the company's ing industry's emissions pledge, the overarching aim to monitor the company is working with AdGreen | waste it collects. "It's about winning to introduce its levy on all client pro- hearts and minds, making people ductions and will impose it on at feel proud of what they're doing, tion's GHG footprint and/or where least three client productions in explains Andrade. there is the greatest opportunity to 2022. "We've also looked at every element of a shoot to see how we can **Reporting success** meet our 2030 carbon neutral Unless there is a regulatory framepledge," she says.

The account teams join in these efforts, and their specific KPI is to of briefs to encourage clients to take for those frameworks and datasets sustainable options in all Unlimit- to measure against and motivate specialist has been engaged to help | preference for engagement over tarsions and reporting will begin once into insight to inform activity. the company has been able to estab-

Human resources

Largest 100 (sample of 5,200) and 250 companies (according to Fortune 500 ranking, 2019), by revenue, worldwide

COMPANIES REPORTING SDG-RELATED SUSTAINABLE DEVELOPMENT GOALS

Building advocacy for sustainable quite closely with the business intelbehaviour across the business is alligence team to increase their capacmost as important as setting defined ity, so they can help us. Just now we KPIs. Making sure staff understand | are setting up dashboards mixing the impact of their behaviour is a non-financial and financial data. critical part. Greene King has reveals Andrade.

relationship with these people. It's | to "decarbonise the goods and ser- | created champions at each of its not a number, it's not a target. In- vices provided and address the so- sites - people who are passionate about sustainability. The business has also added energy and waste to

> training, while incentives are under looking to include recycled products | consideration for these champions

Weleda uses the Theory U model, which shifts from individual-cenboard is responsible for achieving tred behaviours to collective ones able, healthy life. It is used in order to prioritise internal goals, with 145 workshops held over two years for collegial leadership training alone. "People who want to work on innovative and sustainable solutions chain, all the transportation and we need creativity, vulnerability and trust," Kalns says. "They have to feel porate strategy," says Kärlis Kalns. safe. We can never make a KPI based on individuals' ability to be vulnera-Impacts are also considered in ble, but at least we can quantify workshops and training hours.

> Again, Lush prefers to replace Pride 2022, the local store ran a

work to follow, many companies will beat their own path towards what 'measurable sustainability impacts' be able to share the carbon footprint mean to them. But there is a desire ed's creative work. A third-party where necessary. Even Lush, with its measure and monitor those emis- gets, notes that it's diving deeper

> "There's a lot of work in integrated reporting and we've been discussing how we do it much more. We don't have it yet. We have been working

44%

49%

Aisling Connaughton, co-founder and sustainability solutionist at women-led sustainability consultancy Cvd Connects, says that, of all the sustainability frameworks she uses to help clients reach their goals, one of her most used is the B Corp accreditation. Not only does being able to put the B Corp logo on brand assets promote trust among customers but it also helps the organisation

to make defined progress and continued improvement. "B Corp is measuring the triple bottom line. It's a change from a shareholder model to a stakeholder model. Underpinning it is the B impact assessment, which is now used | coherently at a top level. Again, all over the world," explains Connaughton, saying that there were 400 B Corps in the UK at the start of

are predicted to be 1,200. "It's a living, breathing dashboard | gic business priority and proactively and it's free," she adds. "You can drives it, holding each member of have different team members look- the C-suite accountable for driving ing at the ESG frameworks, bringing in multiple stakeholders across the | tion, will make the most impact. It business. It puts you on a points system and, in the same way you'd want to see your money go up, you also societal points go up."

2022 and by the end of the year there

Continuous improvement comes from a process of ongoing auditing | with targets that "cascade down and yearly benchmarks. Companies need to acquire 80 points to gain the B Corp mark and then improve that says Keller. At Weleda, Kalns reports score every year. Between now and that the process is always collabora-2025, for example, Weleda is seeking tive and that "any employee can to achieve 125 points to prepare for share their ideas" but ultimately, the next certification.

contribute to company-wide pro- final decision on strategy is made by gress towards a more sustainable the head of corporate sustainability KPMG, 2020 future, it must ultimately be led | with the board of directors."

of UK consumers said they would be

more likely to buy from a company

that has B Corp certification

there is contention as to who is responsible for sustainability strategy. Wilson maps out the organisation

chart: "Organisations where the CEO sees sustainability as a strateperformance through their funcneeds a top-down and bottom-up approach which is why we have established environmental and social impact working groups."

Nestlé UK & Ireland takes a similar view, "starting with the top" and through teams and there is clear responsibility and accountability," after the small team of five dedicat-However granular the KPIs that ed sustainability employees, "the

Getting the world's buildings to net-zero carbon

Engineering design is creating positive pathways to solve the biggest of all climate change challenges

e challenge of net-zero | Government and global regulations carbon is all around us and probably the toughest task built environment while financial lies in addressing the buildings that are fundamental to our everyday lives homes, workplaces, schools, universities, leisure centres and arenas. From the mundane to the magnificent, they all carry a burden.

The built environment is responsible for almost 40% of global CO2 emis- and the insurance industry is asking sions and, although new construction is decarbonising fast - albeit still not fast enough - a daunting 80% of the buildings that need to be decarbonised are already built. There is \$326tn | tal requirement of an organisation's of real estate on the planet and almost none of it is net-zero carbon.

The task is enormous and multifaceted but, as the UN Intergovernmental Panel on Climate Change (IPCC) has observed. it is also one of the quickest wins for reducing our collective carbon emissions. The crux of the problem is that the majority of existing buildings were constructed with techniques that had no is an area where we need to make subconcern for their carbon consequences. The use of glass and steel has created a | meet our net-zero carbon targets," generation of architecture high on kerb appeal but low on energy efficiency.

\$**326**tn

estate on the planet, none of which is net zero carbon

80%

of the buildings that need to be decarbonised are already built



are now bearing down hard on the

mperatives and ethical incentives are

impelling corporations to drastically

cut the emissions of their businesses

Major sources of capital including

banks and investment funds are cor

sidering carbon emissions before

deciding where to deploy their dollars

Decarbonisation is now a fundamer

existence. The good news is that it is

also a route to improved returns on

investment when buildings function

efficiently, attract premium tenants

and ensure the value of building stock

"A significant part of the overall global

emissions footprint comes from hous-

ing and commercial properties, so this

stantial gains fairly quickly in order to

says Robin Pritchett, Building

Performance Services lead at Cundall,

a leading multidisciplinary engineering

consultancy that specialises in improv-

ing the performance of existing build-

ings and creating innovative design for

"We know every building is capable

of a net-zero carbon pathway. For us,

it is a question of working with every-

one concerned and bringing our

expertise to bear. It is very rewarding

when you start looking at the data and

Environmental, social and govern-

ance (ESG) targets and new govern-

ment energy efficiency ratings sys-

tems are also placing demands on

corporations to reduce greenhouse

gas emissions, water consumption

and waste to landfill volume across

see tangible results because of

changes we have implemented."

new generation construction.

is retained and enhanced.

asset owners about climate risk.

Substantial gains

We are seeing a desire to go beyond minimum requirements, with clients making a real investment to future-proof buildings

world, assisting asset owners, asset managers and major tenants with multidisciplinary design and building performance services to ensure they can take the high-performance road One of these major tenants Cundal

s working with is Legal & Genera nvestment Management (LGIM), which has an ambitious strategy to reach net zero across its 76 million square-foot real estate portfolio by 2050 o sooner. Cundall is helping develor net-zero audits and implementation lans for LGIM's building stock, ther lesigning the interventions "We are witnessing a huge growth i

the commitment to decarbonisation from owners and investors," adds Pritchett, "With clients like LGIM, we are eing a desire to go beyond minimur equirements, with clients making a rea estment to future-proof buildings protect assets against climate change nd create long-term value and perfor nance across their portfolio."

This groundswell is strengthened by he realisation that to continue with business as usual' poses the real threa of asset stranding as the market shifts.

"Large occupiers, particularly multinationals, have their own ESG commitments and they are not going to sign up for buildings that aren't net-zero carbor or on a pathway to net zero. Investors want to maintain their asset values their building portfolio. Cundall has | which are partly driven by what people been working on projects around the | are willing to occupy," says Pritchett.

Engineering opportunities

Retrofitting a building that was designed and constructed with limited concerns for its carbon footprin where Pritchett and the Cundall eam see engineering opportunities

Even the perceived quick wins, such as replacing old boilers with highly-efficient electric heat pumps, pose complex engineering challenges to effectively integrate these into existing systems whilst maintaining the building's function and setting it on a path to net-zero carbon.

"The initial challenge is understand ing the building and its systems," says Pritchett. "We are fortunate because we have a breadth of engineering expertise from building physics to the detailed engineering of pipe systems and valve arrangements. You need all those skills and the knowledge of different disciplines to provide a coordinated answer. Once you've got that engineering understanding then you can really get to work.

Helping Kew's iconic Palm House reach net zero

Royal Botanic Gardens, Kew has appointed Cundall as decarbonisation consultants on the restoration of the heritage-listed Palm House. Protecting and conserving this impressive Victorian glasshouse, while also helping it achieve net-zero carbon is a rewarding challenge that will set the standard for how we restore other heritage-listed buildings in the future. The restoration will be respectful of the building's heritage but will also improve the building's operation, deliver improved internal conditions for the plant life and upgrade the energy systems for the future

"Often you can identify som raightforward signals of inefficiency one client we worked with had their uilding's heating and ventilation oming on every Saturday because its vstems had been scheduled for a ne-off event and not switched back. We can make 10% to 15% energy savings improvements just by managing

assets more efficiently before we

ove into fundamental changes.

A blueprint for change

Cundall is at the forefront of net-zero carbon design which is forming a blueprint for industry, clients, developers and peers to learn from and collaborate for a brighter, more susainable future. It is committed to achieving net-zero carbon design on all its projects by 2030 and confirmed that it will no longer work with clients who don't share its vision.

"This is a very demanding and chalenging sector, but the need is crystal clear from a business and ethical standpoint. The positive news is that industry moving forward and putting more weight and urgency behind the push to net-zero carbon," says Pritchett.

"We need everyone to wake up to the scale of this challenge. It is central to combatting climate change but does not seem to be on everyone's radar at the moment. Flying and driv ing get a lot of press coverage, but uildings get almost none.

"Engineers are problem solvers and getting to net-zero carbon is a challenge we welcome. We need to work ogether to achieve this."

To find out more, visit cundall.com









THE RISE OF NET ZERO

Since the term was first popularised at the landmark Paris Climate Conference in 2015, net-zero commitments have been springing up around the world. Governments have enshrined them into law, and companies have started embedding them into their corporate strategies. But how meaningful are these promises, and where do gaps remain?

OF THE WORLD'S 2,000 LARGEST PUBLICLY TRADED COMPANIES...

1in 3

now have net-zero targets, up from 1 in 5 in December 2020 40%

plan to use offsetting to achieve net zero. Less than 2% have explicitly ruled this out 38%

have pledged to address scope 3 emissions

A SHARED ENDEAVOUR?

Published emissions targets from the world's largest companies (by annual revenue, US\$)

Scope 1

All emissions under an organisation's direct control, including from fuel used in manufacturing or fleet vehicles

Scope 2

Indirect emissions from electricity purchased and used by the organisation

Scope 3

All other indirect emissions from sources not owned or controlled by the organisation, including emissions both up and down the supply chain

- *Berkshire Hathaway: striving to achieve net zero
- **Samsung Electronics: planned to use 100% renewable energy by 2020 and claims to have achieved this
- ***Teva Pharmaceutical: emissions reduction target a 33% reduction versus 2017 baseline by 2030

	US				
Company	End target, year	Scope	Carbon offsetting	Annual revenue	
Walmart	Net zero, 2040	1 2 3		\$559.2bn	
Amazon	Net zero, 2040	1 2 3		\$280.5bn	
CVS Health	Net zero, 2050	1 2 3		\$268.7bn	
Apple	Carbon neutral, 2030	1 2 3		\$260.2bn	
Exxon Mobil	Net zero, 2050	1 2 3		\$256.0bn	
Berkshire Hathaway	Other*	(1), (2), (3),		\$254.6bn	
UnitedHealth Group	Net zero, 2035	1 2 3		\$246.3bn	
Alphabet	Net zero, 2030	1 2 3		\$166.3bn	

Company	End target, year	Scope	Carbon offsetting	Annual revenue
Volkswagen	Carbon neutral, 2050	1 2 3		\$252.0bn
Shell	Net zero, 2050	1 2 3		\$421.1bn
Daimler AG	Carbon neutral, 2039	1 2 3		\$193 <mark>.0bn</mark>
EXOR Group	No target	(1), (2), (3),		\$16 <mark>0.9bn</mark>
Allianz	Net zero, 2050	1 2 3		\$122.4bn
AXA	Net zero, 2050	1 2 3		\$15 <mark>0.0bn</mark>
TotalEnergies	Carbon neutral, 2050	1 2 3		\$176 <mark>.2bn</mark>
Deutsche Telekom	Climate neutral, 2040	1 2 3		\$90.1bn

Company	End target, year	Scope	Carbon offsetting	Annual revenue
ВР	Net zero, 2050	1 2 3		\$271.6bn
HSBC	Net zero, 2050	1 2 3		\$67.2bn
Prudential	Net zero, 2050	(1), (2), (3),		\$67.2bn
Legal & General	Net zero, 2050	1 2 3		\$85.2bn
Aviva	Net zero, 2040	1 2 3		\$89.5bn
Tesco	Net zero, 2050	1 2 3		\$82.7bn
Lloyds Banking Group	Net zero, 2030	1 2 3		\$64.3bn
Unilever	Net zero, 2039	1 2 3		\$58.2bn

End target, year	Scope	Carbon offsetting	Annual revenue
Carbon neutral, 2050	(T), (D), (S),		\$369.2bn
Zero carbon, 2050	(T), (D), (S),		\$364.1bn
Zero emissions, 2050	1 2 3		\$280.5 <mark>bn</mark>
No target	(1), (2), (3),		\$203 <mark>.0bn</mark>
Other**	1 2 3		\$197. <mark>6bn</mark>
No target	(T), (Z), (S),		\$177.2bn
No target	1 2 3		\$172.8bn
No target	(1), (2), (3),		\$162.1bn
	Carbon neutral, 2050 Zero carbon, 2050 Zero emissions, 2050 No target Other** No target No target	Carbon neutral, 2050 (1), (2), (3), Zero carbon, 2050 (1), (2), (3), Zero emissions, 2050 (1), (2), (3), No target (1), (3), (3), No target (1), (3), (3), (3), (3), (3), (3), (3), (3	Carbon neutral, 2050 (1), (2), (3), Zero carbon, 2050 (1), (2), (3), Zero emissions, 2050 (1), (2), (3), No target (1), (3), (3), No target (1), (3), (3), (3), No target (1), (3), (3), (3), (3), (3), (3), (3), (3

ASIA-PACIFIC

Company	End target, year	Scope	Carbon offsetting	Annual revenue
Saudi Aramco	Net zero, 2050	1 2 3		\$329.8bn
Saudi Basic Industries	No target	(1), (2), (3),		\$37.3bn
Teva Pharmaceutical	Emissions reduction***	1 2 3		\$17.4bn
Saudi Electricity	No target	(1), (2), (3),		\$17.3bn
Qatar National Bank	No target	(1), (2), (3),		\$15.9bn
Saudi Telecom	No target	(1), (2), (3),		\$14.6bn
Etisalat	No target	(1), (2), (3),		\$14.2bn
Emirates NBD	No target	(1), (2), (3),		\$10.7bn

Net Zero Tracker. Energy and Climate Intelligence Unit, Data-Driven EnviroLab, NewClimate Institute, Oxford Net Zero, 2022

A BRIEF HISTORY OF NET ZERO

In less than a decade, the term has become the guiding principle for sustainability efforts. The next challenge is turning words into action

 The IPCC's Fifth Assessment Report recognises that tackling climate change means reducing net ongoing emissions to zero for a global climate agreement to provide a clear pathway to zero net emissions before 2100"

 The Paris Climate Agreement aims to limit global warming to a maximum temperature increase of 2 degrees by reducing emissions to net zero as soon as possible

Yes

/// Not specified

Sweden is the first nation to enshrine a net-zero target in law

The IPCC's Special Report
 recommends limiting global
 warming to a 1.5 degree increase

The UK becomes the first G7 nation to legislate for a net-zero target

China, the world's largest emitter, commits to carbon neutrality
"before 2060"

National net-zero pledges now cover more than 90% of the global economy



Investors turn down the heat on big oil

Support for climate resolutions at energy companies and investment managers alike has slipped, as ESG faces criticism from both political groups and concerned corporates

Mark Walsh

ing the 2022 proxy season, from last year amid a booming oil market and a broader backlash against environmental, social and governance (ESG) principles.

The number of environmental (including climate) proposals filed at companies listed in the S&P 500 and Russell 3000 this year surged 69% from 81 to 137 through July, according to the Conference Board, a non-profit business research group (based on data from Esgauge). But overall voting support for environmental proposals slipped to 34% from 38%.

A separate analysis of shareholder voting by US-based multinational jumped 57% to 130 from 83 last year. in the proxy wars.

limate-related initiatives | But only nine won majority approvage voting support fell to 33.4% proxy adviser Institutional Shareholder Services.)

The upwelling of shareholder last year was highlighted by activist | executive director of the non-profit investor Engine No. 1 succeeding in having three new directors voted onto the board of ExxonMobil Corp

But that remains a high point after the weakening of shareholder support this year. Mark van Baal, founder of Dutch environmental cently even described 2022 as a "lost year" fighting climate change law firm Gibson Dunn in July found as the major oil companies can climate change proposals alone claim greater shareholder support

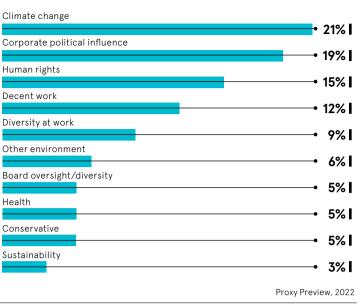
Indeed, it's hard to ignore the im were front and centre dur- | al versus 11 last year, while the aver- | pact that record profits this year at oil giants such as BP, Exxon, Shell but shareholder support dwindled from 49.9%. (The firm's analysis and Chevron may have had in was based on data compiled by softening investor sentiment on climate demands. "These proposals are about the long-term horizon but proxy voting is affected by cur support for environmental issues | rent realities," says Heidi Welsh



advocacy group Follow This, re- | Climate proposals are about the long-term horizon but proxy voting is affected by current realities

THE 2022 PROXY SEASON

Breakdown of shareholder resolutions filed with the SEC by type in 2022



Sustainable Investments Institute | In the former category, As You Sow in Washington DC, which tracks won majority support this year for a ESG-related proposals and voting.

The oil supply shock following giant Chubb to report on its plans to Russia's invasion of Ukraine has put the focus back on fossil-fuel produc- greenhouse gas emissions associattion. "Potential natural gas shortages in Europe and possibly higher oil | The aim is to make the insurance inprices have shifted priorities to securing supply – while weaning the in financing fossil fuel projects. EU off Russian hydrocarbons – from addressing climate change," wrote S&P Global energy analyst Simon Redmond in a mid-vear report.

ment giants like BlackRock and Vanguard rejected climate proposals they deemed overly prescriptive. plans. Under the new rule, large com-BlackRock reported voting in favour of 27% of environmental and social resolutions in 2022, down from 43% last year, "as many climate-related shareholder proposals sought to dictate the pace of companies' energy transition plans despite continued consumer demand."

activists like Follow This, which in- publican party in the US have lately troduced several proposals calling taken aim at ESG as irresponsible for oil companies to reduce emissions in line with the goal of the Paris agreement to limit global warming to 1.5 degrees Celsius | having on some investors," says Tom above preindustrial levels.

At Shell, for example, that initiative drew support from 20% of shareholders, down from 30% last year. while winning just 15% at BP, down from 21% in 2021. Until this year. support had been increasing for the measure at both companies since Follow This first filed it in 2016.

Proposals that set more stringent targets on greenhouse gas emissions or reaching net zero are naturally | plan to haul in the CEOs of investgoing to be a harder sell than those which only ask companies for reporting or disclosure, according to proxy experts. Tougher requests could include that companies adopt policies which align with the International Energy Agency's net xero emissions by 2050 scenario.

"Disclosure resolutions are getting the same level of support," says Andrew Behar, CEO of environ-mental and social advocacy non-profit As You Sow. "But it's the newer resolutions which are a little more granular that are challenging the status quo."

novel proposal asking insurance measure, disclose and reduce the ed with its underwriting activities. dustry more accountable for its role

But Behar says he expects share holder resolutions to focus on direct action after the adoption of a pro posed US SEC rule that would require companies to provide detailed reporting on climate-related risks, emissions and net-zero transition tion starting in the 2023 fiscal year.

Even more than stricter demands. others attribute softer support for climate proposals in order to push back against ESG investing more broadly. Conservative-leaning investors such as Peter Thiel, business That put the firm at odds with | figures like Elon Musk and the Re-'woke capitalism".

> "I would not underestimate the impact that the anti-ESG backlash is Powdrill, head of stewardship at London-based proxy adviser Pensions & Investment Research Consultants "There is significant political and corporate pressure."

Despite its pullback on climate proposals this year, BlackRock has come under attack by conservative groups and politicians as a leading proponent of ESG investing. According to an Axios report, Republicans ment firms such as BlackRock before

For his part, Van Baal has no plans to change strategy in the wake of the ESG backlash or soaring oil industry profits. That means continuing to push for reductions in emissions aligned with the Paris accord and building on the minority of shareholders its proposals have attracted.

"Together with these investors, we must convince a majority of investors that big oil will not change unless they use the power they have, the power of the vote," he says.

Q&A

Recycling for the future

Gerry Marshall, CEO, Recycling Lives, explains how the company's pioneering circular-economy approach is giving waste a second life



Recycling Lives has evolved economy business with social sustainability and the environment at Our goal is to drastically reduce landthe heart of its operations, winning | fill as we move towards net zero. support from customers, the industry and beyond

CEO Gerry Marshall says, "The business model has evolved particularly in recent years, to deliver commercially as well as on a social processing, producer responsibility value and environmental innovation basis. What sets Recycling vices, which is also known as total Lives apart is we're able to deliver fundamental progress to help move the recycling sector forwards in terms of environmental innovation than 150,000 cars and generating and positive social impact when it

financial. It's important that our generating energy to run site oper everything we do – it's something our are all fully bought into.

comes to the people we help.

What's the Recycling Lives goal?

Doing good while we do business is the crux. We are leading the charge when it comes to the

The government estimates technologies such as battery storage systems could save the UK energy system up to



National Grid, 2022

nce it was founded in 1977, | hard to keep improving the level of sustainability across every aspect into a pioneering circular of our work and operations, making these as energy efficient as possible

Recycling Lives operates.

We have four business unit vehicle processing, metal compliance and environmental ser waste management

We are the UK's largest vehicle pro cessor, responsibly recycling more around 500,000 tonnes of high-quality recyclable 'green' steel annually. "For us, the bottom line isn't just | Recycling Lives is working towards commitment to the environment and ations, creating green hydrogen to to social value is fully embedded into power emission-free vehicles, and retasking batteries from end-of-life customers, employees and suppliers | electric vehicles (EV) to be reused for energy storage

Q How many recycled?

Annually, around 2 million end-of-life vehicles (ELV) are produced in the UK. We recycle circular economy and we're working the parts we can and the remaining automotive shredder residue (ASR) amounts to about 25% of ELV mass left. Of this, we currentl recover 20%, leaving 5% which goes to landfill. This 5% is now being addressed through Recycling Lives' ground-breaking energyfrom-waste solution to significantly reduce the amount of landfill.

Do you help individuals and companies to scrap cars responsibly?

Yes – we have Scrap Car Recycling Lives Group, an online nationwide community of recyclers 2050. Currently there are no comwho offer people and businesses competitive prices for scrapping lities to process spent batteries, but their car responsibly. If we can, we we are investing in this as a priority.

The bottom line isn't just financial. It's important that our commitment to the environment and to social value is fully embedded into everything we do

repurpose the parts for reuse, giving them a second life, but if this is not ossible, we recycle them

And what about EVs?

The sale of electric vehicles and their subsequent endof-life will increase the opportunities for us to ensure vehicles are disposed of and recycled in the optimal way. For illustrative purposes, if 8% growth was assumed for new sales, and calculating historical attrition rates, there could be 75,000 to 100,000 end-of life-state EV batteries for recycling, not including manufacturing rejects or other sources.

ls there scope to reuse EV batteries? Yes. And with the UK govern-

ment targeting net zero by 2050, we are poised to ensure that EV batteries have a second life. For nstance, they can be used as battery energy storage systems (BESS) in commercial, domestic and vehicle charging scenarios. The Government estimates technologies such as bat-Network, which is part of the | tery storage systems could save the UK energy system up to £40bn by mercialised UK-based recycling facil-

Do you recycle electric and electronic items? es, recycling is crucial to helping

businesses meet their legal obligations around the disposal of electrical and electronic equipment (WEEE) and avoid the potentially hazardous components going to landfill. Recycling Lives offers clients total compliance so they meet producer responsibility obligations and also have access to the appropriate facilities. Mixed electrical and electronic waste is shredded - the process uses magnetic separation, air blowers and screening for materials such as ferrous and non-ferrous metals, wires, plastics, rubber and glass. This reduces landfill waste and generates recyclable metals, recyclable plastics and rubber.

How does Recycling Lives help the community?

We support ex-offenders, long- | For more information please visit term unemployed and those people in vulnerable groups through training and work placements. Providing the support to help integration back recyclinglives

into society and establish self-suffiiency means we're helping to reduce their risk of reoffending. The national average reoffending rate in the UK is about 60%, whilst the reoffending rate t Recycling Lives is under 5%.

What's Recycling Lives like as a workplace?

It's a really positive and supportive environment. We invest heavily in welfare, training and diversity. This year, we launched The Terry Jackson Academy, named after the company's founder, which provides desk-based tuition, remote learning, hands-on demonstrations and virtual reality experiences. It was created to induct new employees. upskill and develop existing staff and support young people in schools, colleges and disadvantaged groups.

www.recyclinglives.com



Vehicle recycling process

- On arrival, vehicles are inspected before proceeding to the depollution process. There, the potential pollutants are drained, and hazardous materials, such as fuel, brake fluid, engine oil, washer fluids, wheels and batteries are removed.
- Next, engines are removed and the vehicles are processed through a fragmentiser, which separates ferrous and non-ferrous metals from other materials. The waste is known as automotive shredder residue (ASR).
- Some engines can be reused, but nonfunctioning engines are recycled. Other car parts that can be reused include gearboxes, mirrors, tyres, lights and side panels. The remaining materials (seats.

carpets, plastics, glass) are subjected to separation and extraction technologies to remove recyclable components.

- Ferrous metal is shredded and cleaned to become quality 'green steel', ready to be used in another guise in its next life. Non-ferrous metals ('zorba') are also made ready for their next use.
- Recycling Lives' energy-from-waste solution will reduce the amount of ASR that goes to landfill by diverting clean and graded material through thermal treatment technologies to generate energy. Advanced thermal decomposition converts ASR waste into energy, generating by-products - char being used to create green hydrogen, residual char may be applied as a soil modifier and ash as construction-sector aggregate





RENEWABLE ENERGY

The switch-on to renewables

The ongoing energy crisis is pushing more businesses towards using renewables. But is this a long-term trend? Or will the shift towards renewables abate once the energy crisis is over?

business and consumer finances today is not without precedent. As Russia continues to use its gas supplies as a weapon in its war with Ukraine and, in turn, | ing demand from businesses for the West, commentators have compared today's situation with the energy crisis of the 1970s.

Back then, a political conflict deliberately disrupted supply chains and caused surging energy prices. has reframed renewables as a more The recession that stemmed from this disruption differed from its energy than dirtier alternatives. predecessors by simultaneously The first half of 2022 saw a record causing high inflation and high unemployment - a phenomenon known as stagflation.

The Bank of England has made it clear it will do everything it can to stop inflation and stagflation from taking hold in the UK economv. But unfortunately for businesses, the solutions to stemming the rise of inflation threaten to tip the UK into a recession.

After the biggest interest rate rise in 27 years, the Bank of England warned in August that the UK will fall into a recession later this year. This downturn is forecast to last and power needs

he energy crisis squeezing \mid until the end of 2023, with economic growth expected to grind to a halt

But if there is a silver lining to the current energy crisis, it's the increasclean and renewable energy supplies.

The combination of high costs associated with non-renewables and longstanding concerns about the environmental impact of fossil fuels economical and reliable source of investment globally in renewable

Making your building more energy-efficient is the first step, so insulate it and get your onsite renewables to cover your heat

energy, which reached \$226bn (£191bn). Solar and wind were the most popular choices, according to BloombergNEF.

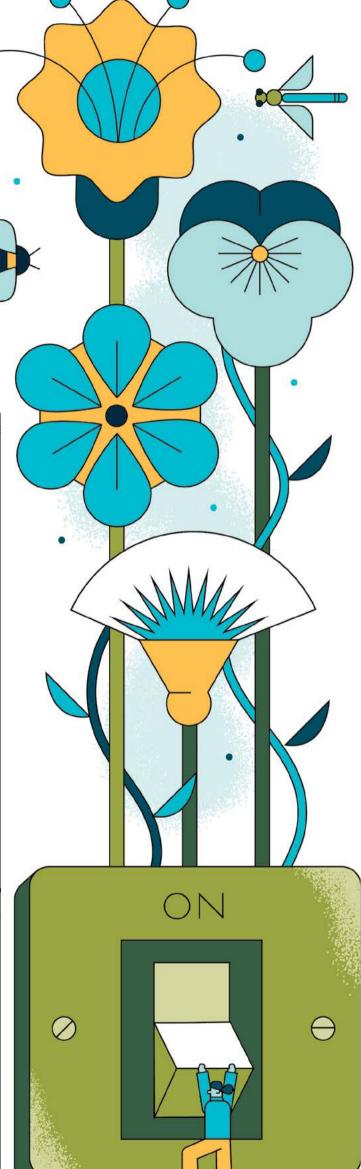
Christophe Williams is the co-founder and CEO of Naked Energy. He does not believe the energy crisis will be an immediate catalyst for widespread renewable adoption pointing to our recent history with fossil fuels as proof that our energy habits are hard to shake.

"Covid showed us that after lockdown and when economies wanted to reboot, the first thing they did was burn fossil fuels. It's low risk. Investors love it because it's a very steady return It's a safe investment."

Williams notes that the ongoing energy crisis creates an opportunity for companies to protect themselves from future price shocks. He says firms that switch long-term to clean energy now will be far better placed to weather future economic uncertainty and primed for the next big energy challenge currently facing businesses: net zero.

One option that some businesses are pursuing is to generate their

ANNUAL GROWTH RATE IN CLEAN ENERGY INVESTMENTS WORLDWIDE 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021





Unless businesses realise the cost of fossil fuels unsubsidised, the switch to renewable green energy is not going to happen quickly enough

in onsite green energy generation, least six decades. with most of this investment going to battery storage and installing own green energy onsite.

The push towards onsite green energy generation from SMEs is timely, given the disruption in the portedly planning to stop selling energy to its biggest business cus- says Pocklington tomers. And in March, Scottish supplying its British industrial and commercial customers.

Williams says the decisions taken by British Gas and Scottish Power | both people and businesses." are typical of an energy market that lacks both "independence" and "forward thinking".

come more energy independent. the spotlight again, following the Gaining this independence is a passing of the Inflation Reduction great way to keep energy costs | Bill in August. This long-awaited low. Making your building more | legislation is a significant victory energy-efficient is the first step, for the renewables sector, with so insulate it and get your onsite \$369bn going towards encouragrenewables to cover your heat and | ing the production of renewable power needs. Energy efficiency is electricity plants. incredibly effective at bringing down demand because the cheapest energy you'll ever use is the energy ensure that the businesses which that you don't use."

Energy and agrees with this view. fossil fuels, once the prices have He observes that, despite the re- normalised, "It's frustrating when guirement for a significant initial vou consider that roughly \$11m per energy generation is a win-win for fossil fuels. The switch to renewable businesses because it not only re- green energy won't happen quickly duces energy costs but it also signals a commitment to the climate | the cost of fossil fuels unsubsidised that customers can easily see.

increasingly what their customers | facilitate the energy transition." expect. The UK market is such that not diminished interest from businesses in switching to renewables."

sible in today's economic climate.

The cost-of-living crisis that is now evident, occurring together to ease the cost of living is considwith the drop in household dispos- ered by many to be a priority over able income are impacting busi- the imposition of green levies. So, nesses just at a time when they are it's currently being used as a politialso grappling with supply chain | cal football. This may result in issues and high inflation. Corporate | holding back the government's ininsolvencies in England and Wales | vestment in renewables, over the rose by more than 80% in O2 need to ease the cost of living."

own green energy onsite. Research | compared to a year earlier, while the by NatWest Group found that 7% of | number of firms opting for liquida-SMEs have already started to invest | tion reached the highest level for at

High energy costs appear to be driving this trend, with 77% of solar panels. This figure is predicted business leaders reporting that to double next year, meaning that | energy prices are the biggest chalby 2023 around one in six SMEs lenge that their company must (17%) will generate and store their | tackle, according to recent research by Npower Business Solutions.

"There is, rightly, a national conversation happening about the economic and wellbeing hardship energy market. British Gas is re- on people right now, with less about the pressure on businesses.'

"There will be more insolvency, Power announced plans to stop uncertainty and increased prices across the economy unless there is significant government intervention to tackle rising energy costs for

The government's role in alleviate ing the energy crisis and incentivising widespread renewable adoption He says: "Businesses need to be- among businesses has been under Williams believes that action on a

similar scale is needed in the UK to have switched to renewables during Nigel Pocklington is CEO at Good | the energy crisis do not return to outlay, switching to onsite green minute is going towards subsidising enough unless businesses realise and we divert the money used to "Businesses were already shifting subsidise fossil fuels to create cleantowards renewables because that's er grids, cleaner infrastructure and

But according to Rhianna Wilsher, the cost benefits of renewables are | director and clean energy lawyer difficult for businesses to access at Freeths, the UK government's unless they invest in generating focus on tackling the cost-of-living their own clean power, because en- crisis for consumers may limit the ergy prices continue to be set by gas. support offered to businesses. "The But what is positive is that this has pinch that the government finds it self in is that introducing financial But for many businesses, finding velopment or rollout of renewable the investment to make onsite green | technologies has previously been energy generation viable is not pos- funded by an increase in green levies on consumers' energy bills," she says.

"The need to reduce energy bills



Is your business ready for the new EU Taxonomy corporate mandates?

and profitability

ng sustainability levels and activities is a cornerstone of the European Green Deal, which provides policy measures intended to help make Europe the first climate-neutral

What's more, the EU's sustainable finance initiative supports the Green Deal by helping to channel private investment towards a transition to a climate-neutral economy. (The UK's environmental objectives Green Finance Strategy operates on a More broadly, reporting demonstrates similar model.)

EU sustainability reporting

continent by 2050.

The EU Taxonomy for sustainable activities is supporting this transition by providing transparency regarding the economic (business) activities which contribute most to meeting the EU's environmental objectives. By classifying environmentally sustainable actions, the EU Taxonomy is designed to improve sustainable investment. create security for investors and motivate companies to be more sustainable.

Companies based in Europe, or those operating a European legal entity with more than 500 employees, are now required to disclose sustainability risks and opportunities.



Companies can use the EU Taxonomy to differentiate themselves as sustainable manufacturers

The Taxonomy also supports the | cost, sustainability, and manufactura upcoming Corporate Sustainability Reporting Directive (CSRD), which is the first common reporting framework from the European Commission focused on non-financial ESG data. More than 50,000 companies must submit their report aligning with the CSRD on 1

Business support for

how a company's actions are contributing towards the EU's six environ mental objectives. Companies should be aiming to contribute to at least one of these, while not harming any other objectives and also meeting minimum social safeguards. Many manufacturers are well positioned to contribute substantially to advancing the follow-

January 2024, for the 2023 financial year

ability efforts, as companies determine nore than 80% of a product's environmental impact and cost during the

Measuring manufacturing emissions

Standard (Scope 3) to measure their carbon emissions throughout the supply chain.

uct's current carbon footprint, one meet their other product requirements simultaneously. Teams can make decisions by evaluating trade-offs among

bility. Some product brands are already using aPriori's Manufacturing Insights

- Identify alternative materials to reduce CO2 emissions and weight, etc. Select alternative manufacturing
- processes to save electricity and reduce scrap, etc.
- Update product designs to cut manufacturing times and incorporate alternative materials, etc.

The key to sustainable product development

Companies are increasingly using digital transformation (DX) capabilities to ncorporate sustainability insights into heir strategic planning and manufaccuring operations. With a unified view of the product development and manufacturing process, businesses can nderstand a product's CO2 impact during the early design phases, and hen evaluate opportunities to reduce a product's carbon footprint. Product esign and production teams can imulate design alternatives using diferent materials and manufacturing processes to meet key targets on CO2 issions, cost and performance

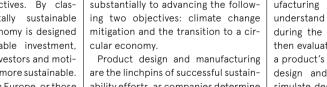
valuate cost, sustainability and manu facturability are well positioned to capi products at an attractive price point. Companies can use the EU Taxonomy differentiate themselves as sustain able manufacturers - and clearly com nunicate this advantage to customers

Manufacturers with the insights to

For more information please visi

nvestors and other stakeholders





On emissions, you can't manage what you can't measure, so many manufac turers are adopting the Greenhouse Gas Protocol's Corporate Value Chain

Once there is a baseline for a prodother option is for manufacturers to work to reduce CO2 emissions and



Putting the 'S' back into ESG

Environmental pledges abound. But where's the social action? **Jamie Coats**, co-founder and CEO of Wise Responder, outlines a new tool kit that allows businesses to show they are rooting out poverty in their workforce



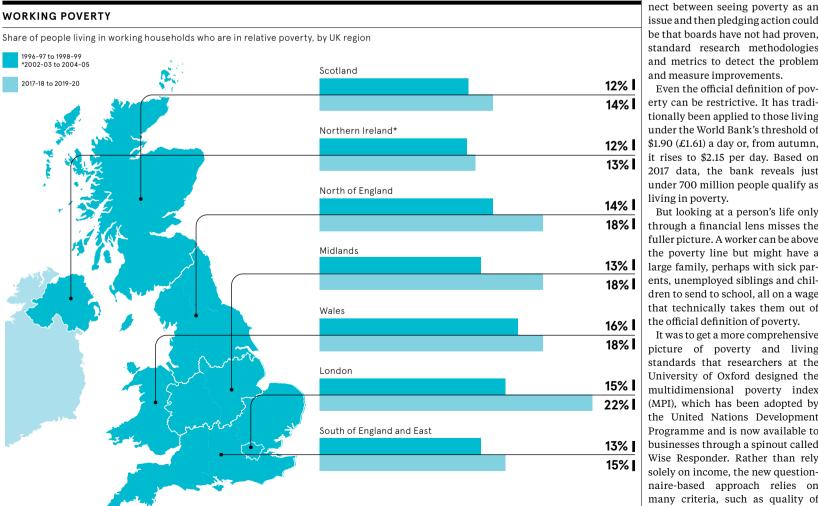
Sean Hargrave

cial values their customers and in- that is treated well. vestors hold dear. This means

the environmental and so- are provided through a workforce

agenda for 2030, more than half

usinesses know they need | net-zero pledges to providing assur- | huge. Even though ending poverty to be purpose-led to reflect | ance that their goods and services | is the first priority for the United Na Nevertheless, the gap between en- (53%) of FTSE 100 companies failed vironmental and social action is to mention the word 'poverty' in their



annual reports for 2019 to 2020, according to research from think-tank Social Market Foundation. It claimed it was a strange omission, prompting an accusation that big business is ignoring the 'S' in ESG.

Part of the reason for the discon

be that boards have not had proven standard research methodologies and metrics to detect the problem and measure improvements. Even the official definition of pover erty can be restrictive. It has traditionally been applied to those living under the World Bank's threshold of

\$1.90 (£1.61) a day or, from autumn. it rises to \$2.15 per day. Based on

through a financial lens misses the fuller picture. A worker can be above the poverty line but might have a large family, perhaps with sick par- lation in 109 developing regions in ents, unemployed siblings and chil- 2021, one in five were found to be livdren to send to school, all on a wage ing in multidimensional poverty. that technically takes them out of The World Bank figure of 700 mil the official definition of poverty.

It was to get a more comprehensive picture of poverty and living standards that researchers at the CEO of Wise Responder, the figures University of Oxford designed the came as little surprise. In his work multidimensional poverty index with many large companies that (MPI), which has been adopted by want to do the right thing by their the United Nations Development employees, he reports multidimen-Programme and is now available to sional poverty is far higher than businesses through a spinout called | boards may have originally thought. Wise Responder. Rather than rely solely on income, the new questionnaire-based approach relies on including global Fortune 500 commany criteria, such as quality of panies, that want a well-motivated IPPR 2021 housing, food availability, access to workforce," he says,

There aren't standards in social data. We've seen issue and then pledging action could environmental data get a lot better, but social data has fallen behind

education, healthcare and security. 2017 data, the bank reveals just | When these more comprehensive under 700 million people qualify as | factors are included, it becomes clear that poverty is far deeper en-But looking at a person's life only | trenched than the headline figures would suggest.

When the MPI was applied to three-quarters of the world's populion living in poverty was nearly doubled to 1.3 billion people.

"We're working with a group of companies across Latin America,

"Our data shows that across Cen tral America and some parts of Latin America, the average rate of multidimensional poverty for companies in the agricultural and beverage industries is around a third of their employees. So, a significant amount of the population is struggling, and that impacts their business.

By addressing the issue and estab lishing where a business can improve its workers' situation, Coats reveals companies can show they care, and that has a significant impact on brand image, as well as employee morale.

"Everybody's talking about purpose. We've seen that when companies help individuals, that creates it has an authentic purpose," he says, "Employees show a lot of gratitude when companies take action. That's very good for loyalty."

only shows areas where multidi- social indicators. One of the chalmensional poverty has been recorded but also highlights areas where are no standards in social data. the business may be able to help. For example, debt problems can poten- get a lot better but social data has tially be dealt with through financial advice, and access to healthcare could be improved through companv-wide health insurance schemes.

There are, inevitably, areas where on its own. For these larger projects, (NGOs). Although it is early days, there are already signs that this can work well when all parties share the same data.

"We have a partner in Costa Rica, called Horizonte Positivo, which is a business-led coalition of 70 compa- they live in decent housing; can nies with approximately 300,000 | their children go to school; are they employees," says Coats.

them they employ just under 10% of and do they suffer discrimination? the multidimensionally poor people who live in Costa Rica. They have now launched thousands of actions. here's a tip. Walk around the caneducation, health care, help with re- and just ask people if the lunch they financing debt, or home improve- are currently enjoying will be their ments. That coalition of companies NGOs that can help supply and support those issues."

This not only improves worker conditions but is also proving to be a way main, often only, meal of the day. of showing investors that a business poverty in its workforce seriously.

"The financial markets are saying, f you can come to us with data, we will have a better conversation about capital allocation. That means investing in social data. an esprit in the business by showing | alongside environmental data, gives a business something they can liter ally take to the bank.

"Citigroup, for instance, has made a \$500bn commitment to under-The data from Wise Responder not | write sustainable loans based on lenges around all this is that there We've seen environmental data fallen behind."

Ultimately, Coats believes social indicators for poverty will begin to catch up with those for environmental impact, so businesses will be able a company cannot make an impact | to show they have taken action to deal with poverty in their business such as improving schools and and its supply chain. This could well sanitation, companies can work in | lead to a kitemark that companies partnership with one another, as | will be able to display, to reassure treating people decently.

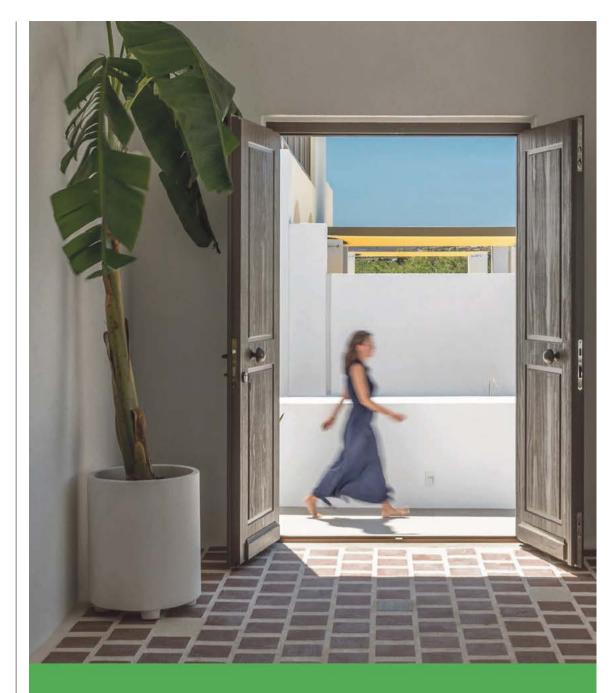
For those who don't currently use social measures, his advice is for an executive to go out and look beyond wage levels and check out themselves how workers are living. Do healthy: do they get enough food: "They discovered that between are there hospitals they can use -

For those who can't get out and see workers' home conditions. whether that's looking at providing teen at one of your company's bases only meal of the day. Feedback is now also working with a set of | from executives from large, global companies has so far been that most are surprised by how many rely on the work canteen for their

Simply following a tick-box exertakes identifying and dealing with cise of ensuring that wages are above the World Bank's lowest limit "There are now trillions of dollars | would never show this social aspect that are targeted to ESG but there of multidimensional poverty. It is are just too few quality vehicles to more prevalent than executives retake those funds and then report | alise - until they commit to measure it, and then take action.



Financial markets are saying, if you can come to us with data, we will have a better conversation about capital allocation. That means investing in data gives a business something they can literally take to the bank





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MARKETING

Why greenwashing is here to stay

Regulators and rating agencies are getting tough on companies making misleading sustainability claims. But it'll take more than AI and fresh reporting requirements to put a stop to this pernicious practice

2015, Volkswagen spent \$77m (£65m) in the US alone touting its diesel cars, presenting them as a low-emission alternative to petrol vehicles.

Of course, it would later turn out to be \$77m poorly spent. After an investigation, the environmental Volkswagen had been installing a so-called cheat device to detect when a vehicle was being tested and to improve its environmental performance accordingly. When in use on the road, the engines concerned were emitting as much as up to 40 times the permitted level of nitrogen oxide

It is one of the most egregious examples of greenwashing and it is a generational affair. landed the company with fines and compensation bills running into the billions. But it hasn't stopped | men to women. These new stewards plenty of other companies from en- of wealth are more concerned with gaging in the practice.

consumer protection and enforcement network, as many as 40% of websites globally are still making misleading statements about enviduring the 2010s, a few key research ronmental credentials, whether via omitted information or unsubstan- that high-ESG companies deliver tiated claims. This is a problem for consumers, who may want to a reversal from the prevailing wis reduce their carbon footprint, and dom on Wall Street and it allowed taking a company's environmental social and governance (ESG) perform

Ken Pucker is a lecturer at Tufts University and an author focusing on the efficacy of various sustainability efforts. As he notes, this ongoing greenwashing problen

"Assets are shifting from boomers

According to the international | of their spending and investing than their elders were," he explains.

"This has created a demand for more sustainable enterprises. There studies pointed to the possibility

These new stewards of wealth and Gen X to millennials, and from are more concerned with the impacts of their spending and planetary welfare and the impacts investing than their elders were posedly, of high-ESG companies to increasingly interested investors."

This is where ESG rating agencies come in. These firms rate companies based on their ESG policies and activities, gleaning information from a range of sources that include company publications, government data and media reports. Unfortunately, this information often leaves a lot to be desired.

they've polluted a certain amount in news articles written every day and scope 1 emissions. I don't know if vou can't go through them all. AI that's good or not." says Florian | can, though, so you can get down to Berg, a research associate focusing | a very small selection and then go on sustainable investing at the MIT Sloan School of Management, "Even if you compare it with other carmakers, I don't know if it's good or not washing, although these efforts are because I don't know how much BMW outsources to other companies. I need the ESG rater to tell me, to make the two things comparable."

To get a better sense of a company's genuine environmental foot- of their activities on the environprint, you'll need to know about its scope 3 emissions, which includes emissions generated by partners in the supply chain. This is often the most significant category of emissions but is routinely omitted by ery of a green taxonomy – a com companies attempting to improve their ESG scores. It's just one of sev-

eral greenwashing tricks in play. "Coca-Cola set a target to become water-neutral by 2020. They achieved their goal five years early. However, they were the ones that chose how to define water neutraliwithin the four walls of their production facilities," says Pucker.

"That definition excluded more to produce their end product, most | ternalise the external risks."

of which is used in growing the agricultural products - mostly sugar - to sweeten Coke," he explains.

It's important not to fall for another type

of greenwashing too: confusing reporting

for real action

Naturally, ESG rating agencies aim to take everything into account to give a more accurate picture of an organisation's performance. But this doesn't mean that ESG ratings can be relied on as gospel, MIT Sloan's Aggregate Confusion Project, which has set out to improve the quality of ESG measurement and decision-making in the financial sector, has found that the correlation between ratings from different ESG agencies averages just 0.61. By comparison, credit ratings from Moody's and Standard & Poor's are correlated at 0.92. To deal with this, efforts are now

underway to make ESG ratings more objective. Many agencies are using AI or neurolinguistic pro gramming (NLP) to analyse corpo rate data and reports. According to Berg, however, this must be han dled with care. "The problem is that when you run an NLP algorithm on a sustainability report which has been written not only by the company but also by an adviser who knows exactly how to write these reports. I don't see the NLP being good at figuring out how good or bad the company is," he says.

"Where AI can be very good is filtering stuff for analysis. For exam-"When I see BMW telling me ple, you get hundreds of millions of through those by hand."

> National and international bodies are also moving to tackle greenmainly in their early stages. This summer, the EU finalised a deal which would require large compa nies to disclose their ESG risks and opportunities, as well as the impact ment and people - all of which would be externally audited.

In the UK, meanwhile, the new green technical advisory group is mon framework setting the bar for investments classed as environ mentally sustainable

For Pucker, though, it's important not to fall for another type of greenwashing here: confusing report ing for real action. "Many of the known environmental challenges ty; they defined it as water used have accelerated, and it's time to try a different approach," he says. "I suggest changing the rules and incentives: regulate to help raise than 90% of the water that is needed | the floor and make companies in-

Why hi-tech timber could solve construction's CO₂ problem

The construction industry is responsible for generating 37% of the world's CO₂ emissions a figure equivalent to the emissions produced by China. But an enhanced, high-performance wood could help the industry on its journey to be more sustainable

world of sustainable construction. The 300-metre wide 'landscraper' | 2030 but those emissions are still on will house 7,000 employees by 2024, the rise, partly driven by huge cor boast a landscaped roof garden with struction projects in China. a rainwater irrigation system, and boost employee wellbeing – but that isn't what makes it special.

Sustainability and next generation innovative design. The tech giant has chosen Accoya, a hi-tech timber developed by UK high-performance wood specialists, Accsys, as the material for the building's facade. The wood will provide a durable and environmentally friendly alternative to materials such as steel, aluminium and concrete, which emit vast amounts of CO₂ during the manufacturing processes required to make them.

expands and shrinks when exposed to different temperatures, Accova timber has been deliberately engiretain moisture. The end result is a futuristic timber that remains duraits entire lifecycle.

are we making it more resistant to rot and decay, we're making it harder and more durable. Accoya has an industry-leading warranty of 50 years above ground and 25 years in ground."

Google's focus on timber at its London HQ has been driven by the planet's race to reach net zero by 2050 and the construction industry's urgent need to transition to sustainable materials. It's a little known fact that construction is responsible for 37% of CO_2 emissions globally – that figure is equivalent to the total CO_2 emissions produced by China Approximately 11% of those emissions come from manufacturing building materials and products such as stee cement and glass.

A report by the World Green Building Council has stated that every building on the planet must be netzero carbon by 2050 to keep global warming below 2°c. But, there is doors, decking and cladding

pogle's £1bn tech campus in | another even more pressing deadline. King's Cross, London, pro- | According to the Paris Agreement vides a window into a new carbon emissions from cement production need to fall by at least 16% by

There is also a concern that cour even a habitat for bats and birds to | tries with growing populations will build vast new urban developments using polluting, unsustainable materials that will worsen the industry's CO₂ materials are at the core of Google's problem. Nigeria's capital city, Lagos people living across 452 square miles one of a host of cities that i expected to grow in size and trigger the building of millions of new homes between now and 2030 and beyond.

sparked a race to develop new sustainable materials and explains why the Accoya timber used in Google's futuristic hub is in such high demand. While normal wood absorbs mois- But how exactly can the wood be ture and rots over time, and typically used to build the sustainable buildings of the future?

"Accova can be used in many differ ent ways, but we've made big inroads neered so the cells in the wood don't across four different applications in recent years - windows, doors, decking and cladding," says Harris. "It can ble during all weather conditions and | also be used for structural purposes, naturally locks in carbon throughout | such as glulam beams. It's become very popular with joiners and builders Rob Harris, CEO at Accsys, says the who want a quality sustainable matescience is simple. "We're just enhanc- | rial that lasts and doesn't rot. ing a natural product," he says. "In | Homeowners are increasingly seeing it this case, we're enhancing a as a good investment that will add long fast-growing radiata pine wood from term value to their homes and are New Zealand to make a product that | even adding its usage as part of front is just naturally stronger. So not only doors and windows on their estate

Despite its growing popularity, Accsys estimates its patented enhanced timber is currently only supplying 2% of the potential global market opportunity - but it's working

cross the world

Delta Millworks in

acetylation reactor at its plant in increase capacity by a third. A new reactor is also being built in Kingsport, Tennessee that is due to start producing Accoya in 2024. It also hopes to attract investment to meet the significant future demand for Accoya globally, as well as play a pivotal role in advancing the sustainability of the

construction industry. A number of companies are exploring the use of alternative materials or reformulations of existing solutions in option is the reformulation of cement production, using similarly behaving materials that produce significantly less CO₂ emissions during the manufacturing process. Montreal company Carbicrete has developed a way to capture carbon during production and then inject it into concrete to lock it away forever. The result is that concrete captures more carbon than it emits during this process.

Carbon capture is another longterm benefit of using Accova as part

hard to ramp up production. The I of sustainable construction projects. company has just completed a new | Trees remove carbon from the atmosphere at an increasing rate during Arnhem, Netherlands, which will growth before levelling out once they tion of the Minnesota State Capitol has reach maturity. Accoya is made from high-yield radiata pine in New Zealand which grows much faster than other types of wood because of the country's optimal climate. The wood is harvested once i

> reaches maturity and turned into Accoya, which locks away the carbon he wood has captured during growth. With the raw wood being sourced from FSC approved forests, Accsys has mentally friendly way. "Being able to select really fast growth, high-yield wood, and then turn it into Accoya is really the sweet spot in terms of carbon capture," says Harris.

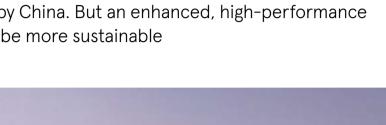
Thousands of miles away from Google's London hub, construction projects in a host of other countries are tapping into the power of sustain able materials. Guinness has chosen Accova cladding for its first brewery in the USA since 1954, while the wood was used to create the interior and

zero-carbon home - a \$32m Malibu mansion. Marisol Malibu. The restoraalso incorporated Accoya windows to provide durability and maintain the building's historic look

As the construction industry continues its battle to reduce carbon emissions, Accoya could play an expanding role in building towards a sustainable and high-performance

For more information visit accsysplc.com, accoya.com/uk/where-to-bu







Accoya can be used in many different ways, but we've

made big inroads across four different applications in recent years - windows,



We've tried to cultivate an environment where anyone can be a cyclist, no matter what you wear, what bike you have or how far you want to go

health benefits of cycling and even | That is something which the the locations of recent bike thefts. government is pushing to change. There is also an email group to share This year, a new public agency, tips, a buddy system for new cyclists | Active Travel England, was estaband bike hire schemes that give peo- lished. It is tasked with overseeing ple a chance to try out cycling be- a £2bn budget to spend on safe fore investing in their own.

A recent staff survey showed that across the whole country. 18% of respondents now use bikes public transport during Covid but, invested in their area. although "the pandemic focused sees this as a long-term change.

a lot are. So if you can offer some- | ly. "We need businesses to clearly about the resilience of the hospital good policing, we need safe, in terms of people being able to get | high-quality infrastructure." in if push comes to shove," he adds.

clist fatalities on nearby roads, including among its staff.

ty fears which many have about than the rest of the country. bikes. Busy roads that lack segregat-

RETURN TO THE OFFICE

— 2020 **—** 2021 **—** 2022

cycling and walking schemes

Chamberlain believes that emas part of their commute - which is | ployers should make sure that local a huge jump from just a few years authorities and MPs know they ago. Part of that was a shift from want to see some of that money

"If you want the UK's workforce minds", Martin says the hospital to cycle, then businesses should be a critical part of calling for "The workforce is under strain, as public money to be spent differentthing positive, that's good. It is also say, 'We need safe roads, we need

Almost a decade ago, support Since the start of the pandemic, from businesses such as Deloitte, GOSH has also worked with Camden | Microsoft and Unilever was hugely Borough Council to support the cre- instrumental in establishing Lonation of safer cycling routes around | don's landmark cycle superhighthe hospital. It followed several cy- ways. As a result of this and other infrastructure improvements in the capital, Londoners are now three That underlines the very real safe- times more likely to cycle for travel

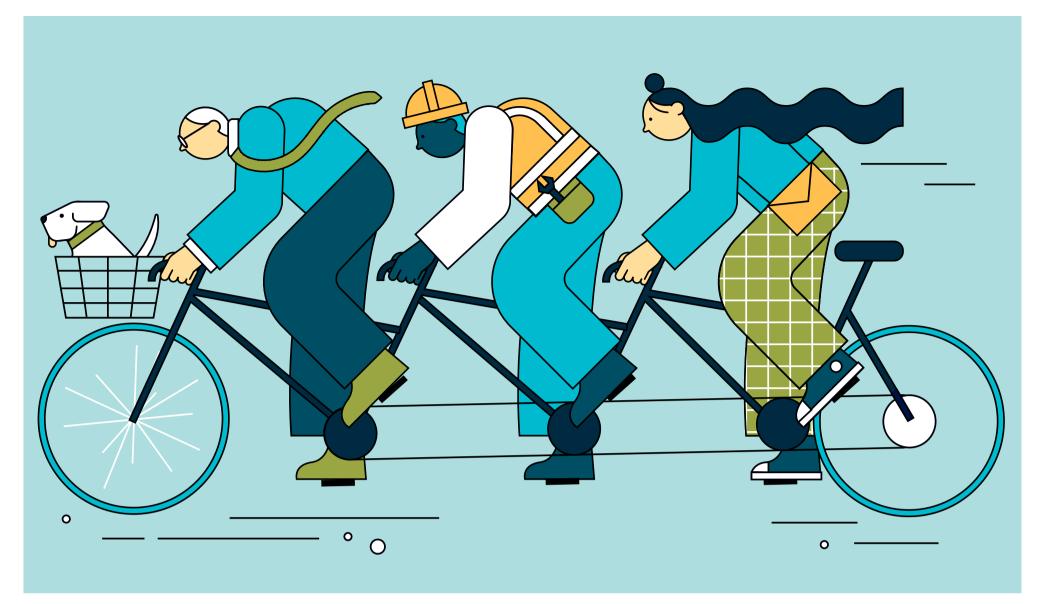
Now, says Chamberlain: "We need ed, continuous cycle paths can be the same level of investment of pointimidating - and cycling is still litical capital in all the other large about 28 times riskier than driving. urban centres across the country."

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How employers can go up a gear to boost commuting by pedal power

Culture change is vital to encourage employees to get onto their bikes – and start to enjoy the health, wellbeing and environmental benefits

Clara Murray

made headlines at Wimbledon this year for more than reaching the Grand Slam's semifinals. Papped cycling to the tournament, racket slung on his back, he told the press he doesn't own a car and in the Netherlands. bikes to practice almost every day.

In many ways, Norrie is bang on who commute by bike.

just 5% of the UK population cycle to sions (indirect emissions from work or school. While this is almost | third parties). Meanwhile, studies double the 2.8% recorded in the 2011 have linked cycling to work with a census, it's still far behind Germany, | 41% lower risk of premature death Sweden and the world-leading 30% and a 45% reduction in cancer risk

been known that cycling to work trend. During the pandemic, the benefits employers and workers petus. Russell Stephens is head of government hailed a British "active alike. According to the European commercial at Cycling UK. He retravel Renaissance" as quiet roads | Cycle Federation, a commuter who | ports that there has been a surge of and public transport qualms boost- switches from car to bike for an 8km interest in its workplace cycling ed cycling rates by 46%. But he is commute saves 750kg of carbon schemes since 2020. still in a tiny minority of Britons | emissions annually. For larger organisations, this could add up to demic, businesses wanted to make

A recent Ipsos survey found that | significant cuts in scope 3 emis while regular exercise can help to Why does this matter? It's long ward off depression.

The past two years have added im-

"Going back to the start of the pan

that it didn't feel safe to travel into environment where anyone can be a cities and towns during the lock- cyclist, no matter what you wear, or down," he says. "Now we're seeing a no matter what bike you have, and crisis." According to new research | network manager in Inverness. from Blackhawk Network, commuters can save an average of £750 a not prescribing to people." year by switching to cycling, rising to £1,400 in Greater London.

ployer accreditation recognises organise group rides both in-person businesses that support biking to and virtually and share colleagues work. Among the changes it sug- | success stories. To date, 12,000 emgests are installing lockers, showers and secure cycle storage, along with have registered on HSBC UK's Get providing liability insurance and Active Hub app, logging more than hosting bike maintenance sessions. 2.1 million cycling miles. The government's Cycle to Work scheme is particularly popular. It aland support area where you can go lows PAYE employees to spread the and see what other people are cost of bicycle equipment through a doing, get ideas and encourage each tax-free salary sacrifice and more other," Collier says. than 1.6 million people at 40,000 employers have signed up for it.

little without culture change. Nick | ning that helps people," he says. Chamberlain, policy manager at This includes information about British Cycling, says, for example, that many believe cycling to lock up their bikes. work means heavy, sweating effort. This often isn't true for typical short commutes – so businesses | Street Hospital for Children (GOSH). should reflect this in their messaging and imagery.

be a sporty thing. You don't have large central London campus hosts a to be a fitness fanatic," he says. 'Taken steadily, it's no different to administrators, all with varying a brisk walk, but the perception is shift patterns and backgrounds. often very different."

One business putting this into formation pack about active travel. practice with great success is HSBC including maps of cycle-safe routes UK, a former partner of British to the hospital, information on the

practical changes, based on the fact | Cycling. "We've tried to cultivate an shift towards workplaces trying to also no matter how far you want to help staff with the cost-of-living go," says Thomas Collier, a branch "What's key is keeping it simple and

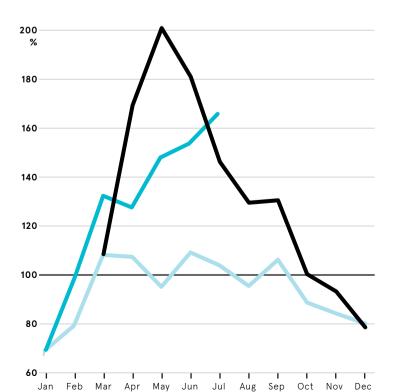
Collier, a lifelong bike enthusiast, is one of the bank's 120 Get Active The charity's Cycle Friendly Em- | champions around the country, who plovees, including CEO Ian Stuart,

"The app creates a community

There are different cycling facilities in each of HSBC's hundreds of But these interventions count for UK workplaces, but "it's the planshower facilities and where they can

have also been key for Great Ormond the first UK hospital accredited gold status by Cycling UK. This is despite "Cycling to work doesn't have to bigger challenges than most. Its diverse workforce, from doctors to

All new employees receive an in-



CYCLING IS STILL ABOVE PRE-PANDEMIC LEVELS AS PEOPLE

Monthly average percentage change in cycling volumes in England compared to

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