

2024 ANNUAL TRENDS REPORT

The Next Steps for Sustainable Business

January 2024



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Executive Summary

Twenty-twenty-four may very well become a breakthrough year for sustainability. Although, as always, the world's sustainability transformation will labor forward amidst many other pressing concerns, this year inherited considerable momentum from 2023, including the historic outcomes of COP28 and the decisive global embrace of simultaneous action on climate, nature, and equity.

Still, many other issues will compete for attention. Perhaps more than anything else, geopolitics - from the Israel-Hamas conflict, the ongoing war in Ukraine, and escalating US-China tensions to a record global election year - will again force political and business leaders to manage energy security and supply chain risk as well as dealing with the ebbs and flows of electoral campaigns.

The ESG backlash is also likely to continue. However, the wave of anti-ESG legislation in the US and the global popularity surge of populist, and often climate-skeptic, parties in 2023 showed that the backlash, despite generating many headlines, has limited real business impact: a few notable exceptions aside, companies have stayed the course.

Regardless of these and other pressures, we expect the sustainability transformation to be resilient and likely accelerate compared to last year. Three pivotal developments in 2023 set the stage for this.

Firstly, the global shift toward mandatory sustainability disclosures was kicked off by the European Union's Corporate Sustainability Reporting Directive (CSRD) and reverberated in new regulations from California to Singapore. Secondly, the breakthrough of nature-related reporting was bolstered by the launch of the final framework of the Taskforce on Nature-related Financial Disclosures. And 2023 wrapped up with a climate agreement at COP28 explicitly mentioning a shift away from fossil fuels.

Another crucial factor driving momentum is the steadfast commitment of investors and companies to sustainability. Both groups increasingly engage with sustainability, from reporting, stakeholder engagement, and workplace diversity to sustainable operations and supply chains, seeing this engagement as business critical. In this regard, it is telling that the ESG backlash has made companies and investors less outspoken about sustainability but no less determined.

This 2024 Trends Report covers relevant sustainability trends and corporate responses across ten categories. Based on extensive research and interviews with subject matter experts, we highlight and interconnect the most critical developments for each category and recommend actions to help companies navigate 2024 and beyond. The ten trends and our analysis are summarized below.





TREND 1

Responding to climate change: Getting real about decarbonization

A brutally hot 2023 proved the warmest year on record. Realizing time is running short, governments, lenders, investors, and other stakeholders push harder for companies to decarbonize, a trend expected to accelerate after the relative success of COP28.

Key accelerators

- Unrelenting extreme weather brings home the urgency of climate action.
- After trust in voluntary carbon markets was battered, strict new standards offer hope for recovery.
- Countries double down on renewable energy, yet fossil fuels stubbornly continue to dominate.
- COP28 agrees to triple renewables and shift away from fossil fuels.

The corporate response

- Companies are still interested in carbon credits when high integrity is assured.
- More lenders and investors to encourage companies to decarbonize.
- Corporate climate strategies turn to technological carbon removal.

Action recommendations

- Prioritize direct decarbonization of your company's emissions before pursuing abatement via carbon markets and technological carbon removal.
- Scrutinize voluntary carbon markets and ensure the quality of future purchases to avoid controversy.
- Assess decarbonization priorities of major shareholders and the incentives they offer.
- Review your company's emissions and determine if technological carbon removal is a financially and operationally feasible option to reduce them.



TREND 2

Valuing human capital: Farewell to back to normal

Although many COVID-19-induced challenges have passed, labor relations refuse to return to normal. Worker engagement remains low, while workplace disruption remains high, forcing companies to revisit their human capital approach.

Key accelerators

- Job markets are cooling globally.
- Organized labor's rebound continues.
- COVID era slump in worker engagement intensifies.

The corporate response

- Companies deploy novel ways to lure employees back to the office.
- Supporting employees' private lives emerges as a new way to fight disengagement.
- Recruiters increasingly select new workers based on skills, not education or experience.

Action recommendations

- Treat employee engagement as a whole person issue by considering what exactly employees need to be successful.
- Focus on employees' personal growth and helping them be their best self at work.
- Enable employees to provide feedback on employee engagement initiatives.
- Avoid interfering with employees' right to organize. Instead, focus on improving the workplace.

Integrating ESG: Cutting through the noise

Companies and investors are getting pulled in opposite directions on ESG. In the end, despite pushback, they will stay the course in 2024, convinced that integrating ESG and sustainability is smart business, not a matter of ideology.

Key accelerators

- Anti-ESG sentiment crystallizes into legislation.
- Inflows into ESG funds have slowed but still outpace traditional funds.
- On the other hand, ESG disclosure regulations are multiplying.
- Greenwashing is in the crosshairs of consumers and regulators.

The corporate response

- Investors continue to favor strong ESG performers for their portfolios.
- Companies dial back green claims in marketing, a.k.a. ‘greenhushing’.
- Companies increasingly pursue high-quality ESG data and reporting.

Action recommendations

- Scan ESG disclosure regulations to pre-empt strategic impact and disclosure demands.
- Scan anti-ESG litigation and stakeholder priorities to flag business risks.
- Review where your company may be at risk of greenwashing accusations.

Safeguarding natural systems: Mother Nature gets a seat at the table

Nature impact as a corporate consideration has come into its own. Regulation and voluntary standards have pushed protecting nature alongside climate. Companies continue to get ready for this and will move from vague nature ambitions to concrete nature targets.

Key accelerators

- As nature loss accelerates, the inextricable link between nature and climate becomes more visible.
- Governments worldwide decisively expand action to protect nature.
- New nature-related disclosures standards push companies into action.

The corporate response

- Companies are fast-tracking their grasp of nature-related impact and reporting.
- Large investors put pressure on companies while expanding nature-related financing.
- Food and agriculture value chains increasingly bank on regenerative agriculture.

Action recommendations

- Map your most material nature-related issues and develop a bespoke disclosure and management strategy.
- Ensure your nature-related actions align with investor expectations.
- Focus on nature actions that hit climate and social goals simultaneously.
- If you operate in agribusiness, consider employing regenerative agriculture practices.
- Evaluate value chain exposure to natural disasters and develop plans to mitigate risks.



TREND 5

Streamlining sustainability disclosures:

A new paradigm

The decisive global switch towards mandatory sustainability disclosures is an important influence on many other trends and forces companies to report in detail on climate, nature, and social performance. In 2024, the impact of this shift will be fully felt.

Key accelerators

- New regulation and tougher standards push the business world towards mandatory ESG disclosures.
- Europe's mandatory CSRD and the voluntary ISSB lead the disclosure pack.
- CSRD has impact far beyond Europe, and many local regulators will adopt ISSB.
- Companies operating in the European Union must apply a double materiality lens.

The corporate response

- Disclosure regulations require intensified cooperation across business functions.
- Companies simplify disclosures to increase control and quality of ESG data flows.
- Many companies plan to embrace double materiality, even before they are required to do so.

Action recommendations

- Research the regulatory requirements affecting your business across jurisdictions.
- Extract added value from your disclosure efforts, like benchmarking and gap analysis.
- Pending mandatory disclosures are complex and have consequences, so start preparing now to avoid non-compliance.
- Undergo a double materiality assessment.



TREND 6

Building sustainable and resilient supply chains:

Striving for transparency and action

Caught between geopolitical turmoil and demanding stakeholders, supply-chain management may be the world's toughest job right now. Companies will increasingly put their supply chain under the microscope to gain a deep understanding of its risks and opportunities.

Key accelerators

- Regulators and investors demand supply chain transparency and disclosure.
- Consumers consider paying more for truly sustainable products.
- Supply chain cyberattacks rise to the top of the worry list of corporations.
- Companies increase collaboration with suppliers to decarbonize value chains.

The corporate response

- Sustainability due diligence to pre-empt supply chain transparency risks is gaining traction.
- Clean energy projects are a popular way companies help their suppliers decarbonize.
- Companies struggle with the threat of supply chain disruptions due to cyberattacks.

Action recommendations

- Pre-emptively review your supply chain and make traceability the default product inputs.
- Map your supply chain, including second and third-tier suppliers, and scope for alternative suppliers.
- Familiarize yourself with the consequences of upcoming supply chain regulation.

Enabling sustainable consumption and production: The end of waste?

Pushed by a cocktail of regulation, lawsuits, stakeholder pressure, and resource scarcity, companies are reevaluating how they produce and package products. Circularity and sustainable sourcing appear set to break into mainstream corporate practice.

Key accelerators

- Governments take action to stem the tide of plastic.
- Investors push companies to face the financial risks of using plastics.
- Consumers demand transparency and dig deeper to assess sustainability claims.
- Companies increasingly see the commercial value of circular production.

The corporate response

- Companies ramp up innovation efforts aimed at finding sustainable alternatives to plastic.
- Product circularity drives waste reduction and emissions mitigation.
- Companies employ reverse logistics to scale refurbishment and/or reuse of used products.

Action recommendations

- Track regulations and investor demands on sustainable consumption and production.
- Pursue plastic use reduction opportunities by focusing on sustainable materials.
- Set up a value chain engagement process to track product sustainability and improve it.
- Incorporate circularity principles in your business model and in product and service design.
- Integrate sustainable consumption and production data into existing data systems.

Applying technology to sustainability: Taking AI for a test drive

With AI bursting onto the scene, companies have another digital technology to add to their toolbox for collecting and managing ESG data. The year ahead will test how useful AI is to bolster sustainable performance. Generous subsidies will help companies scale up other sustainability-related technologies.

Key accelerators

- AI and new green technologies reshape society at high speed.
- Breakthrough AI technology introduces sustainability potential and threats.
- A historic wave of government funding accelerates green technology development.

The corporate response

- Companies embrace AI to transform and bolster sustainability performance.
- Partnerships to maximize the sustainable added value of technology are on the rise.
- Companies use digital platforms to meet stakeholder appetite for sustainable data.

Action recommendations

- Before integrating AI, identify potential ethical and environmental issues.
- Align with the sustainability-related technology issues important to your stakeholders.
- Develop centralized governance systems to manage technology and compliance risks.

Respecting fundamental rights: From checkbox to core strategy

A growing number of lawsuits, community protests, and NGO campaigns make it clear that overlooking human rights and community engagement is still an ever-present business risk. Regulators also chip in, pushing human rights to the top of the corporate agenda.

Key accelerators

- Government action focuses on supply chain due diligence and forced labor.
- Corporate diversity efforts under fire.
- Stakeholders increasingly flex their muscles on human rights.
- Growing litigation and protests amplify commercial and reputational risks.

The corporate response

- Companies ramp up proactive engagement on human rights to avoid conflict.
- Corporate diversity efforts continue but at a slower pace.
- Just Transition considered in decarbonization and decision-making.

Action recommendations

- Set up a comprehensive process for human rights due diligence and risk management.
- Invest in social performance capacity and skills within your project development teams.
- Identify the stakeholders most affected by your company's operations and value chain.
- Embed respect for human rights and go beyond compliance with regulation.
- Consider Just Transition principles while developing your energy transition strategy.

Navigating the evolving political landscape: Another volatile year ahead

In 2023, companies faced unrelenting geopolitical turmoil. This will continue, if not intensify, in the new year. So, it will take all-hands-on-deck again to manage potential disruptions.

Key accelerators

- U.S.-China tensions continue to generate significant trade disruptions.
- Russia's invasion of Ukraine continues to complicate corporate operations.
- The Israel-Hamas conflict generates business volatility.
- ESG and sustainability backlash makes some companies hesitate.

The corporate response

- Companies will be better equipped to address geopolitical risk.
- Businesses choose to be less outspoken on divisive issues, fearing commercial damage.
- Geopolitical tensions may slow corporate decarbonization efforts.

Action recommendations

- Proactively map alternatives to operations and suppliers in high-risk regions.
- Before speaking out on divisive issues, assess what political positions may alienate core stakeholders.
- Strengthen your internal capacity to assess the impact of (likely) geopolitical events on decarbonization and other sustainability efforts.

TREND 1

Responding to climate change

Key accelerators

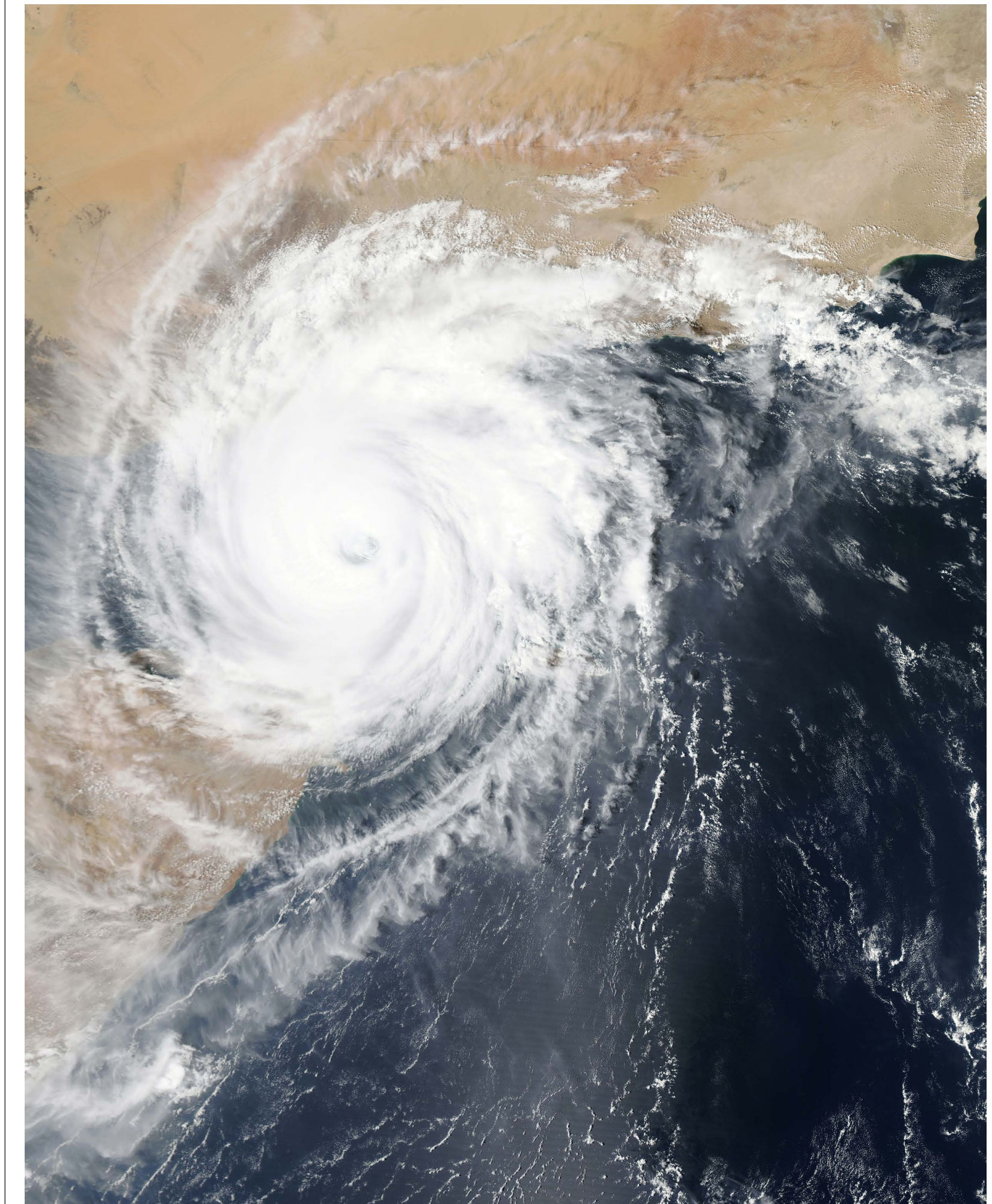
- Urgency for climate action increases as extreme weather events become more common and more fatal.
- Trust in voluntary carbon markets decreases but path to credibility emerges.
- Countries continue to increase renewable energy investments.
- Fossil fuels still dominate global energy infrastructure and supply.
- COP28 outcomes provide reasons for hope but more work must be done.

2023 was the warmest year in history after seven consecutive months of record-breaking temperatures from June to December.¹ Last year also saw extreme weather events such as Canadian wildfires, Hurricane Otis off Mexico's southern Pacific coast, and Typhoon Doksuri in China. These extreme weather events are likely to only become more common after scientists found that global warming is well on the way to crossing the Paris Agreement's 1.5 °C threshold in January 2023.²

The impacts of worsening climate change are likely to be significant. According to a November 2023 study, 4.4 percent of global gross domestic product (GDP) could be lost annually under a transition scenario where global temperatures increase 2.1°C by 2050.³ The same study found that regions in the Global South such as Sub-Saharan Africa, South Asia, the Middle East, and North Africa are most susceptible to climate change and associated GDP risks, whereas North America and Europe were the regions with the greatest ability to avoid, respond to, and recover from climate impacts.

With climate change accelerating, companies and governments are searching for ways to reduce greenhouse gas emissions. One mechanism has been through voluntary carbon markets (VCMs), but in 2023, trust in VCMs faltered. A 2023 study on Verra, the world's most common carbon standard for voluntary carbon offsets, found that 94 percent of its rainforest offset credits likely do not represent true greenhouse gas emissions reductions.⁴ Other developments further dented voluntary carbon market confidence. In response to questions on the validity of carbon credits, the Voluntary Carbon Markets Integrity Initiative (VCMI) released its Claims Code of Practice in June 2023 to define the

credible use of carbon credits in achieving emissions reduction targets.⁵ Similarly, in January 2023, the Net Zero Asset Owner Alliance, an investor group with \$11 trillion in assets, banned members and their investee companies from counting carbon removals towards their greenhouse gas emission reduction targets before 2030.⁶



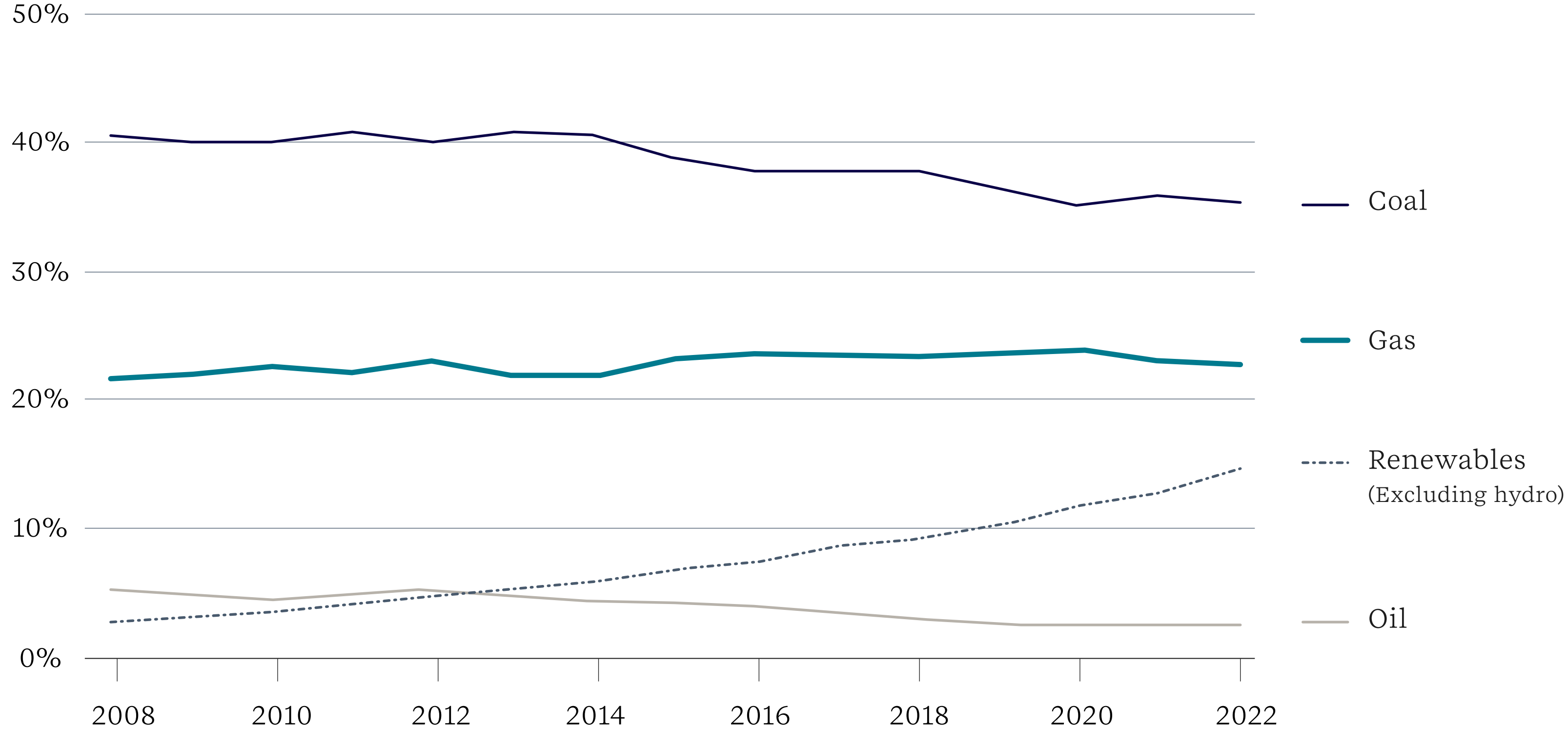
Another way companies and governments have sought to reduce greenhouse gas emissions is through clean energy. In October 2023, the European Council adopted a directive to double the renewable energy consumption in the European Union by 2030 and a law to decarbonize the aviation sector using sustainable aviation fuel.⁷ These new pieces of legislation are part of the EU’s proposed strategy to reduce greenhouse gas emissions by 55 percent by 2030. Other parts of the world are following suit in the transition toward renewable energy. China will likely double its wind and solar power capacity by 2025, while in the United States, 23 percent of electricity is expected to come from renewable sources in 2023, up from 13 percent in 2013.⁸

Even as renewable energy use grows, fossil fuels still prevail. According to one 2023 report, fossil fuels still account for 82 percent of global energy supply.⁹ Furthermore, despite earning an average of \$3.5 trillion annually since 2018, global oil and gas firms are only spending 2.5 percent of their total investment on clean energy.¹⁰ At the same time, oil and gas companies continue to make significant fossil fuel investments. For example, in October 2023, Exxon Mobil and Chevron committed to spend over \$100 billion combined to acquire smaller oil and gas companies.¹¹ These companies are not doing this alone. In 2022, banks in the US, China, and Europe invested \$150 billion in companies that operate major coal, oil, and gas projects.¹²

In spite of the mixed climate action described above, many observers felt 2023 ended on a high note at COP28 in Dubai. After long deliberation, parties agreed to transition away from fossil fuels to achieve net zero by

Figure 1: Global power generation by energy type between 2008 and 2022

The share of renewables in global power generation continued to increase



Global power generation by energy type between 2008 and 2022.

Source: [Energy Institute](#)

2050, the first time they have mentioned fossil fuels in their texts and the first commitment to reduce their use.¹³ Parties also pledged to triple renewable energy capacity by 2030 and they established and began a loss and damage fund to support the global communities most vulnerable to climate change.^{14, 15} Still, many felt COP28's signature results could have been – should have been – much stronger, especially leaders from the Global South. Among other criticisms, many believe the agreement to transition away from fossil fuels as framed is unequitable because it fails to acknowledge the Global North's role in most historical greenhouse gas emissions.¹⁶ Many leaders also stated that the \$700 million in initial funding for the new loss and damage fund is wholly inadequate to address the adaptation needs of their countries, which have been estimated to be as high as \$2.4 trillion annually by 2030.¹⁷



The corporate response

The world has made significant progress in addressing the climate crisis since the Paris Agreement, with temperatures on track to rise 2.9°C because of new policies, but there is still an enormous amount to do to limit global warming to 1.5°C.¹⁸ Companies are advancing their climate commitments by using financial incentives to scale decarbonization, pursuing carbon market opportunities, and employing technological carbon removal.

Financial factors to quicken corporate decarbonization

Companies face many climate action pressures, including financial factors. If 2023 developments are any indication, financial institutions will be an increasingly major driver of companies' direct decarbonization (i.e., through energy efficiency improvements, renewable energy adoption, etc.).

Limiting oil and gas financing is one growing focal point of financial institutions, especially as shareholders, like those at Barclays, push the company to limit involvement with the industry.¹⁹ In March 2023, Dutch financial services company ING restricted its financing of new midstream oil and gas infrastructure, a move that followed its 2022 decision to stop financing new oil and gas fields.²⁰ Singapore's OCBC Bank made a similar decision in May 2023 when the lender announced it would not finance upstream oil and gas projects approved for development after 2021.²¹

Beyond oil and gas-centered efforts, financial institutions are also using their combined might to push their investee companies to decarbonize. The Institutional Investors Group on Climate Change launched its Net Zero Engagement Initiative in March 2023, which outlines how it expects its investee companies to develop net zero transition plans built on credible decarbonization strategies.²² Separately, firms like Apollo Global Management are developing their own programs for corporate decarbonization. Launched in April 2023, its Apollo Clean Transition Capital strategy will initially deploy \$4 billion to help companies develop direct decarbonization solutions and pursue efforts to deploy \$100 billion by 2030.²³



Confidence in carbon markets will be (partially) restored

In our 2023 Trends report, we forecasted that companies would increasingly utilize carbon credits sourced from voluntary carbon markets to complement their direct decarbonization efforts. However, VCM headwinds limited the success of our prediction and altered how companies approach carbon markets.

As mentioned, a noteworthy study found that many of the carbon credits offered by a leading credit verifier were “worthless.” Another study comparing the Voluntary Carbon Markets Integrity Initiative’s Claims Code of



Practice against the carbon credits already used by 470 companies found that only 3.7 percent meet the VCMI’s most basic requirements.²⁴ Partially in response to these developments, companies including Nestlé, Kering, and Gucci pulled back from investing in carbon credits to avoid associated controversies.²⁵

Despite setbacks, we expect confidence in voluntary carbon markets to be rebuilt. Although companies are purchasing fewer carbon credits at present, they are paying a premium for the ones they do buy as they pursue verified emissions reductions and strong environmental and social co-benefits.²⁶ Moreover, 89 percent of company leaders in North American and Europe continue to view carbon credits as a key tool to counterbalance hard to abate greenhouse gas emissions.²⁷

Projections also find that carbon credit demand will only increase as companies have no choice but to invest in them as part of what’s required to achieve their climate goals after reducing absolute emissions to the greatest degree possible.²⁸ One analysis finds that fundamental demand (i.e., demand driven by defined targets), for carbon credits will rise to 1.1GtCO₂e by 2030 and to 5.4GtCO₂e by 2050 from less than 100MtCO₂e in 2023.

Companies to increasingly employ technological carbon removal in their climate strategies

Carbon removal technologies are essential to mitigating the worsening effects of climate change. According to the Intergovernmental Panel on Climate Change’s Sixth Assessment Report, deploying carbon removal technologies is unavoidable if net zero is to be achieved,

with 6 gigatons of CO₂ removed per year under scenarios where global warming is held to 1.5°C.²⁹ From scaling available technologies to cost, significant hurdles must be overcome to build confidence that these approaches can deliver.

As the necessity of carbon removal becomes more apparent, companies are beginning to incorporate it into their climate strategies. In May 2023, JPMorgan Chase announced it will spend over \$200 million with direct air capture firm Climeworks to remove and store 800,000 metric tons of CO₂.³⁰ JPMorgan was also involved in an innovative group purchase of carbon removal when, in April 2023, the bank, Autodesk, H&M Group, and Workday announced a \$100 million purchase through Stripe’s Frontier, which helps companies purchase carbon removal by aggregating demand.³¹

Instead of direct air capture, Microsoft is pursuing carbon removal through bioenergy with carbon capture and storage, or BECCS. In May 2023, the tech giant agreed to purchase 2.76 million tons of carbon removal over 11 years starting in 2025 from two biomass burning Orsted powerplants that will store the CO₂ produced during energy generation under the North Sea.³²

These efforts are spreading globally and across sectors. In August 2023, Japan’s All Nippon Airways agreed to buy 30,000 tons of carbon removal starting in 2025 from Occidental Petroleum subsidiary 1PointFive.³³ Also in Japan, shipping firm Mitsui O.S.K Lines joined Mitsubishi and other companies in April 2023 to form NextGen CDR, which aims to scale the market for certified carbon removals from technological projects.³⁴

Action recommendations

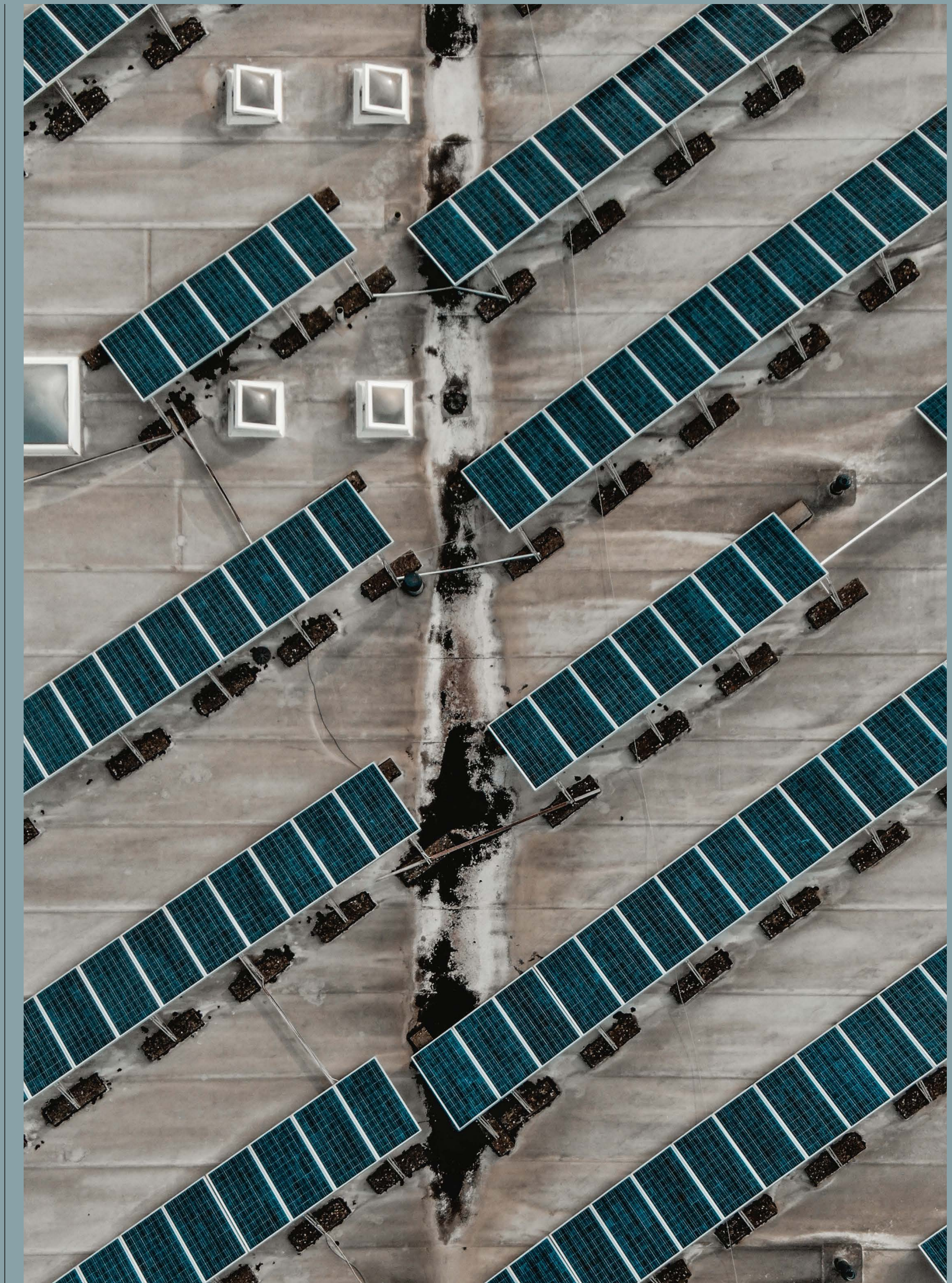
Companies looking to modify how they react to climate change to ensure they appropriately respond to the trends shaping the space should consider pursuing the following actions:

- Pursue direct decarbonization of your company’s own greenhouse gas emissions and those of its value chain first before reducing unabated emissions via carbon markets and technological carbon removal.
- If your company already purchases carbon credits sourced from voluntary carbon markets, evaluate whether they represent verified emissions reductions to avoid controversy and ensure your purchase achieves its intended result. If your company is considering purchasing carbon credits, only weigh those that deliver verified emissions reductions and environmental and social co-benefits.
- Assess your major investors’ portfolio decarbonization initiatives to identify what potential decarbonization pressures you may face and the incentives that may be available to you for pursuing certain decarbonization actions.
- Evaluate your company’s emissions footprint to ascertain if technological carbon removal aligns with your climate action targets. As part of the evaluation, consider the scale of the emissions reductions needed to achieve your targets and the likely costs of these reductions, two factors that will determine whether carbon removal is financially and operationally feasible.

“Greenhouse gas emissions conversations have been predominately focused on “emissions” but are expanding with emerging sophistication around “removals”, the likes of which will be vital for many corporate decarbonization ambitions. Though uncertainties have made incorporating removal solutions challenging, first of its kind funding and private sector investment are driving critical development that will enable credible/scalable decarbonization through the advancing technological carbon removals market.”

Michael Cheatham

Global Lead, Energy & Climate Change, ERM



TREND 2

Valuing human capital

Key accelerators

- Job markets begin to cool globally.
- Employees continue to be disengaged at work.
- Workplace disruptions simultaneously challenge workers and generate benefits.
- Organized labor maintains its rebound.

Both internal and external accelerators are shaping how companies approach human capital. As always, workers feature prominently in these developments. On one end of the spectrum, workers are changing their behavior because of outside factors. The mass job switching that defined the COVID-19 pandemic seems to be receding as economies slow and corporate layoffs grow. In the U.S., 2.3 percent of the total workforce resigned from jobs in August 2023, just below 2019's highest monthly rate of 2.4 percent.³⁵ Meanwhile, the August 2023 U.S. hiring rate declined to 3.7 percent, a low not seen since January 2018. Globally, year-over-year hiring rates in August 2023 declined with countries including Ireland, Singapore, and Australia experiencing decreases of 34.6, 31.8, and 28.6 percent, respectively.³⁶

The continued effects of the workplace disruptions of the past few years are another outside factor affecting workers. In 2022, U.S. employee engagement dropped for the second year in a row after declining for first time in ten years in 2021.³⁷ Globally, 59 percent of employees were disengaged at work, costing the global economy \$8.8 trillion.³⁸ Declining employee engagement also threatens individual company performance. One 2023 study found that for each additional engagement point, public companies saw a +\$46,511 boost to their market caps per employee.³⁹ Engagement drops have coincided with over 40 percent of desk workers globally reporting burnout due to factors including economic uncertainty and the return to office.⁴⁰ Worker's job satisfaction is dropping too. Between June 2022 and June 2023, job satisfaction decreased 11 percent globally, an almost 15 times greater acceleration than the two years before combined.⁴¹

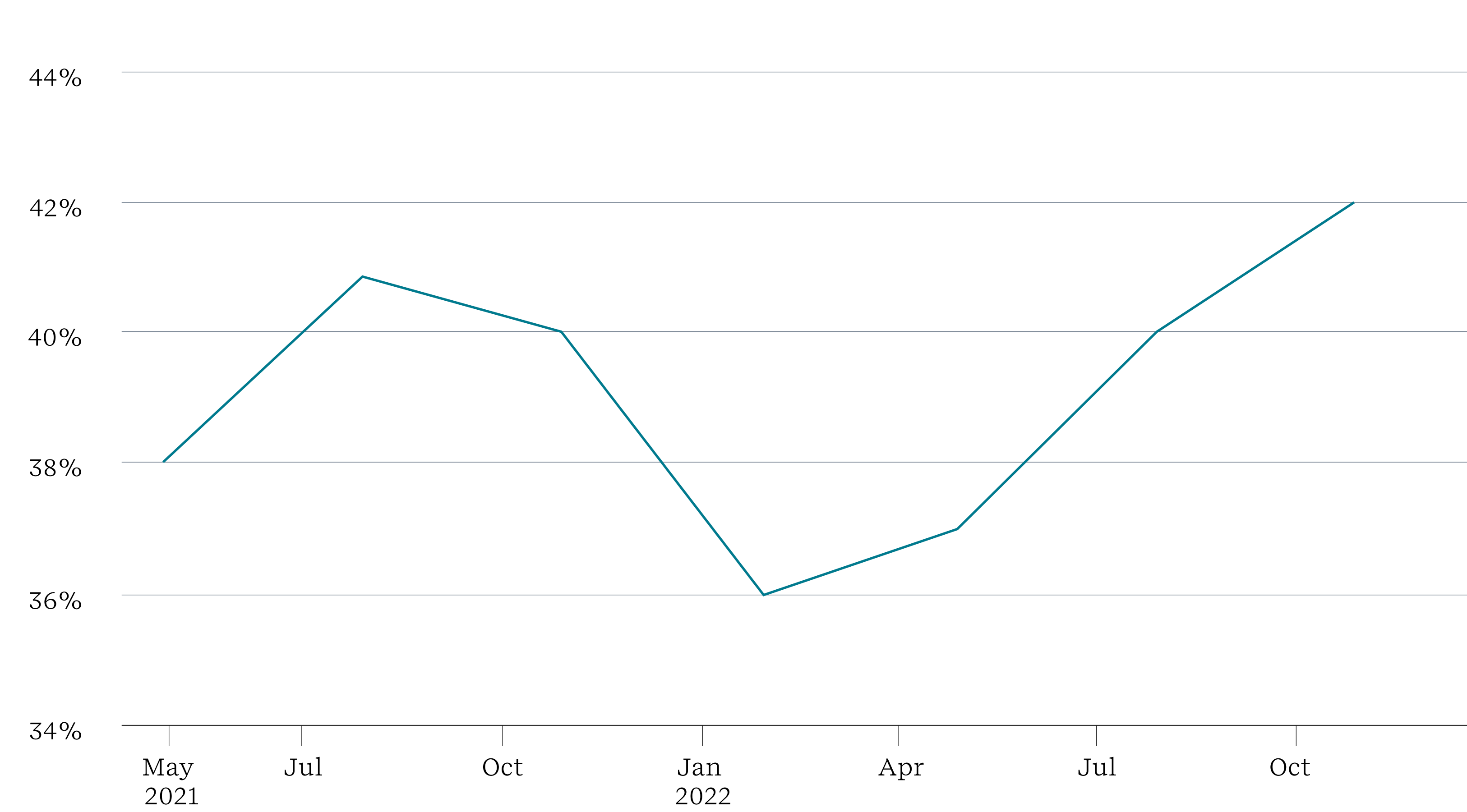


Beyond employee engagement and satisfaction, workplace disruption is negatively affecting worker performance. Younger workers are among the most impacted with some companies providing extra training to them to compensate for communication and teamwork skills that were not developed during the remote learning that defined the pandemic.⁴² Feedback issues associated with remote work are also negatively affecting younger workers. One study found that while the productivity of senior workers can increase with remote work, more junior colleagues are likely to be less productive in part due to the reduced performance feedback they are likely to experience while working remotely.⁴³

Remote work also has upside. An analysis of public companies globally found that fully remote companies and those that allow employees to work remotely or from the office saw sales increase by 21 percent between 2000 and 2022 versus 5 percent with required hybrid or full-time office work.⁴⁴

Figure 2: Increasing burnout

Share of respondents globally agreeing with “I feel burned out at work”



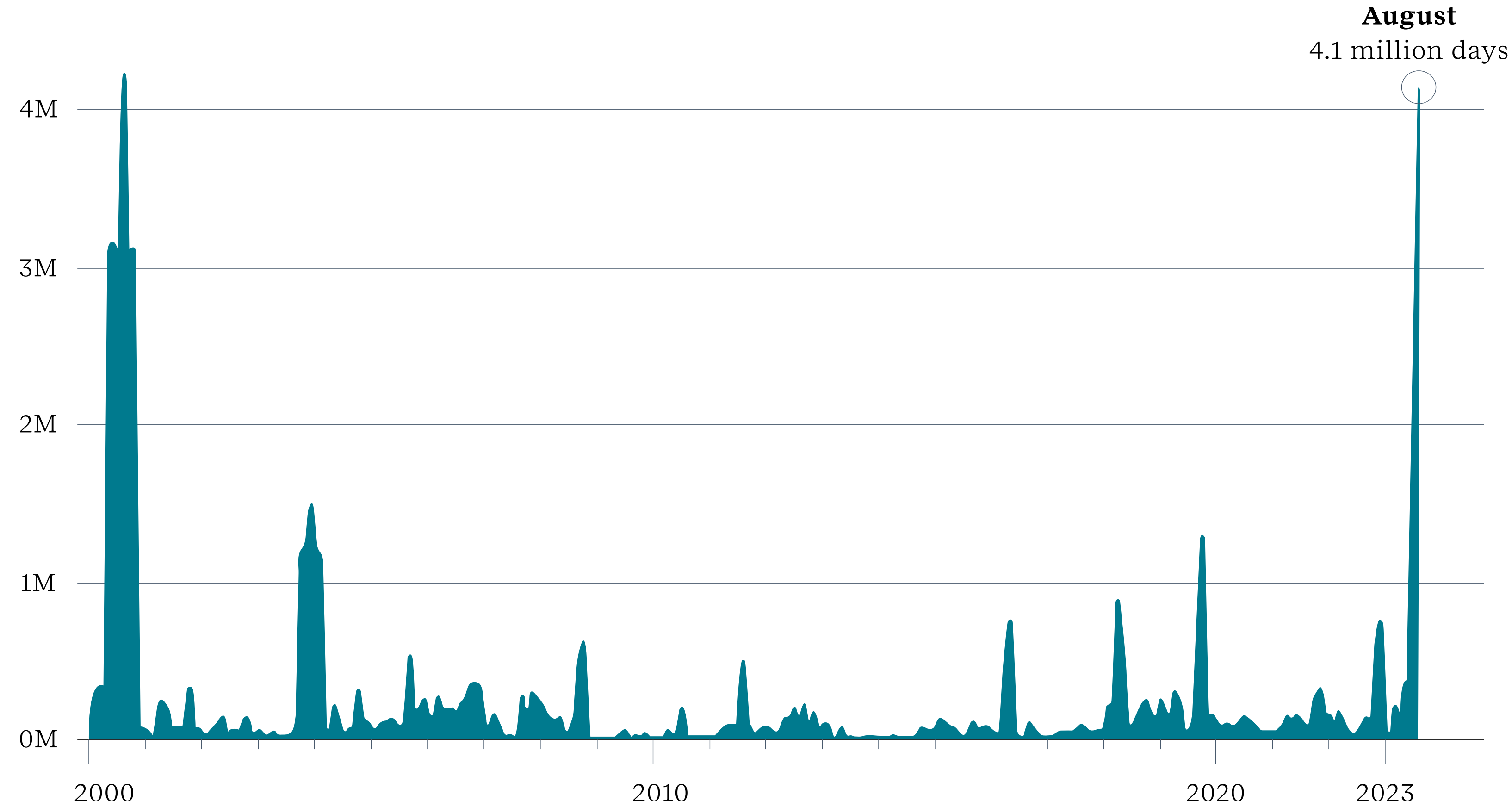
Global worker burnout rates over time.

Source: [Bloomberg](#)

Rather than passively accepting the trends shaping human capital, workers are taking steps to shape whether and how they are valued and supported. This can be seen in the ongoing resurgence of organized labor. The most notable example of labor’s rebound comes from the U.S. where 4.1 million workdays were lost to walkouts in August 2023, the most in two decades, thanks in part to strikes by auto workers, actors, screenwriters and healthcare workers.⁴⁵ Notable organized labor activity has also occurred in Indonesia, where labor unions claimed that almost 1 million workers struck in late November 2023 to demand that the government set a higher minimum wage for 2024.⁴⁶ Additionally, thousands of garment workers in Bangladesh struck to demand higher pay, paralyzing apparel factories in the world’s second biggest garment producer.⁴⁷

Figure 3: U.S. workdays lost to labor stoppages

Workdays lost to stoppages, monthly



Calculated by multiplying the number of workdays lost each month in a stoppage by the estimated number of workers involved. Stoppages include strikes and lockouts. Data for 2023 are preliminary.

Source: [The Wall Street Journal](#)

The corporate response

From workplace disruptions to organized labor’s resurgence, companies must contend with a wave of workforce-related changes. Current corporate responses focus on where employees work, how companies support employees at work and beyond, and workforce development approaches.

Companies to get creative in how they bring employees back to the office

To better shape corporate culture and to address performance and engagement issues arising from remote work, companies are calling employees back to the office. As of July 2023, the Asia-Pacific region led the way with office occupancy rates reaching 79 percent compared to 58 percent in January 2021.⁴⁸ While occupancy in the Americas was just 48 percent, this was still a considerable increase from 18 percent in January 2021.

Companies are getting creative about office returns. One strategy is to focus on fun as some companies try to entice employees with perks like free cold brew, pickleball courts, and Instagram-worthy office design.^{49, 50} Others take more assertive approaches like reducing bonuses and lowering performance review scores for those who do not meet in-person requirements.⁵¹

Aggressive or punitive approaches can backfire, as Amazon saw after employees walked out over return to office mandates.⁵² Elsewhere, mandating a return to the office has been tied to increasing turnover among employees.⁵³ Still, in-person working does not have to be painful. J.M. Smucker found success by requiring corporate employees to be in its Orville, Ohio headquarters 22 weeks a year for what it calls “core” weeks and allowing them to work remotely (and live anywhere else in the country) the rest of the year.⁵⁴

How companies support employees with benefits beyond remuneration

As companies grapple with falling employee engagement and job satisfaction, many are looking beyond traditional remuneration. Unique work location perks are a benefit gaining traction, particularly among younger employees who value experiences. Companies like Greenhouse Software offer employees the ability to work from anywhere globally for up to 60 days a year.⁵⁵

Other companies are offering employees benefits to support all aspects of their lives. This includes providing daycare for both elderly parents and children of employees to help bring back employees who may have left the workforce over family care requirements.⁵⁶ Beyond physical care options, mental healthcare benefits are increasingly prevalent. Companies are offering all kinds of assistance ranging from on-site mental health counselors and mental wellness app subscriptions to designated self-care days and personal paid days off for stressful life events outside of work.^{57, 58} Housing is also on the mind of companies as more and more turn to building housing to attract workers who may be priced out of local real estate markets and combat labor shortages.⁵⁹

However, non-traditional employment benefits are not without their issues. For instance, the rise of unlimited paid time off has led to some employees reporting feeling compelled to not actually take time off for fear of falling behind on work.⁶⁰

New approaches to training and development equip workers with the capabilities needed to succeed in today's workplace

The modern workplace is in a constant state of flux due to the intersection of long-term evolutions like the low-carbon energy transition and short-term developments like the need to bolster employee retention because of labor shortages. With change a constant, companies must ensure they help their employees develop the right skills for what's next. For example, automotive companies are moving to equip their employees with the skills required to produce electric vehicles as Volkswagen is doing as it retrain 22,000 of its employees.⁶¹

Other forms of novel training look to develop skills while balancing workloads. When employees go on parental leave, some companies are experimenting with having other employees temporarily take over the role to give them an opportunity to develop new skills and knowledge of other parts of the company through internal internships or by hiring people who are starting to work again after they themselves had children.⁶²

Companies are also focused on hiring employees with the right skills for the job rather than (or in addition to) development. In what is known as skills-based hiring, companies make hiring decisions primarily off a candidate's skills and not just their degrees and past experiences. In addition to higher job performance among hires, skills-based hiring can increase diversity within the workforce by opening up roles to candidates who may have otherwise been dismissed over education or experience.⁶³



Action recommendations

Companies looking to modify how they approach human capital matters to ensure they appropriately respond to the trends shaping the space should consider pursuing the following actions:

- Approach employee engagement from a whole person perspective by considering all that employees need to be successful in the workplace. Support for things like employee wellbeing, workplace and time flexibility, and career path adaptability will help bolster engagement and retention.
- Foster a workplace that prioritizes employees' personal growth and helps them find true norths for their careers. To do so, consider how you can unlock the power of your people by helping them figure out how they work best and can be connected to work that brings out their best qualities.
- Create feedback pathways for employees to provide input on your company's employee engagement efforts and ideas for how the organization can better engage its employees. When doing so, clearly define how their input will be considered and used.
- Do not limit your employees' rights to organize. In a time of increasingly active organized labor movements, proactively engaging employees on how the workplace can be improved will bring far more benefit than reactive confrontation.

“The modern workplace has shifted from a linear space where the focus is on companies to a non-linear one that thinks about people first. This shift has seen companies think more holistically about their employees, from their personal growth and well-being to where they will be most successful within the organization for both their own goals and that of the company.”

Ellis Griffith

Chief People Officer, ERM



TREND 3

Integrating ESG

Key accelerators

- Anti-ESG backlash continues, especially in the U.S.
- ESG-related regulation multiplies.
- Greenwashing and greenhushing remain in the spotlight.

Though the concept of ESG (Environmental, Social, Governance) has been used since the early 2000's, in the last few years it has become a rallying cry for promoters and detractors. Proponents see ESG as a valuable tool for identifying and prioritizing non-financial considerations, while opponents see ESG as a representation of 'woke' politics infiltrating the private sector. As this debate continues, we are approaching a pivotal juncture that will decide the future of ESG. Strongest in the U.S., the anti-ESG sentiment gained strength in 2023 through new laws where several state governments enacted anti-ESG legislation. Perhaps most notably in Florida, where Governor Ron DeSantis signed a law prohibiting the consideration of ESG factors in public investments and procurement.⁶⁴

ESG backlash has become substantial enough that major investors like KKR and T Rowe Price have listed anti-ESG sentiment as a material risk in their annual reports, stating that the divergent views and competing demands from opponents may negatively impact financial performance.⁶⁵ According to KKR, divergence on ESG "increases the risk that any action or lack thereof with respect to ESG matters will be perceived negatively by at least some stakeholders and adversely impact our reputation and business."⁶⁶

Corporates are also feeling the push and pull of the ESG debate. Belgian beverage company AB InBev's brand Bud Light faced scrutiny in 2023 after featuring transgender influencer Dylan Mulvaney on a promotional can, widely seen by opponents as an ESG-driven decision (but seen by others as a marketing decision that might have been made even in the absence of ESG debates).⁶⁷ Retribution from angry consumers was swift and sales plummeted.⁶⁸

AB InBev has yet to fully recover, and in Q3 2023 reported a 17 percent decline in sales to US retailers "primarily due to the volume decline of Bud Light."⁶⁹

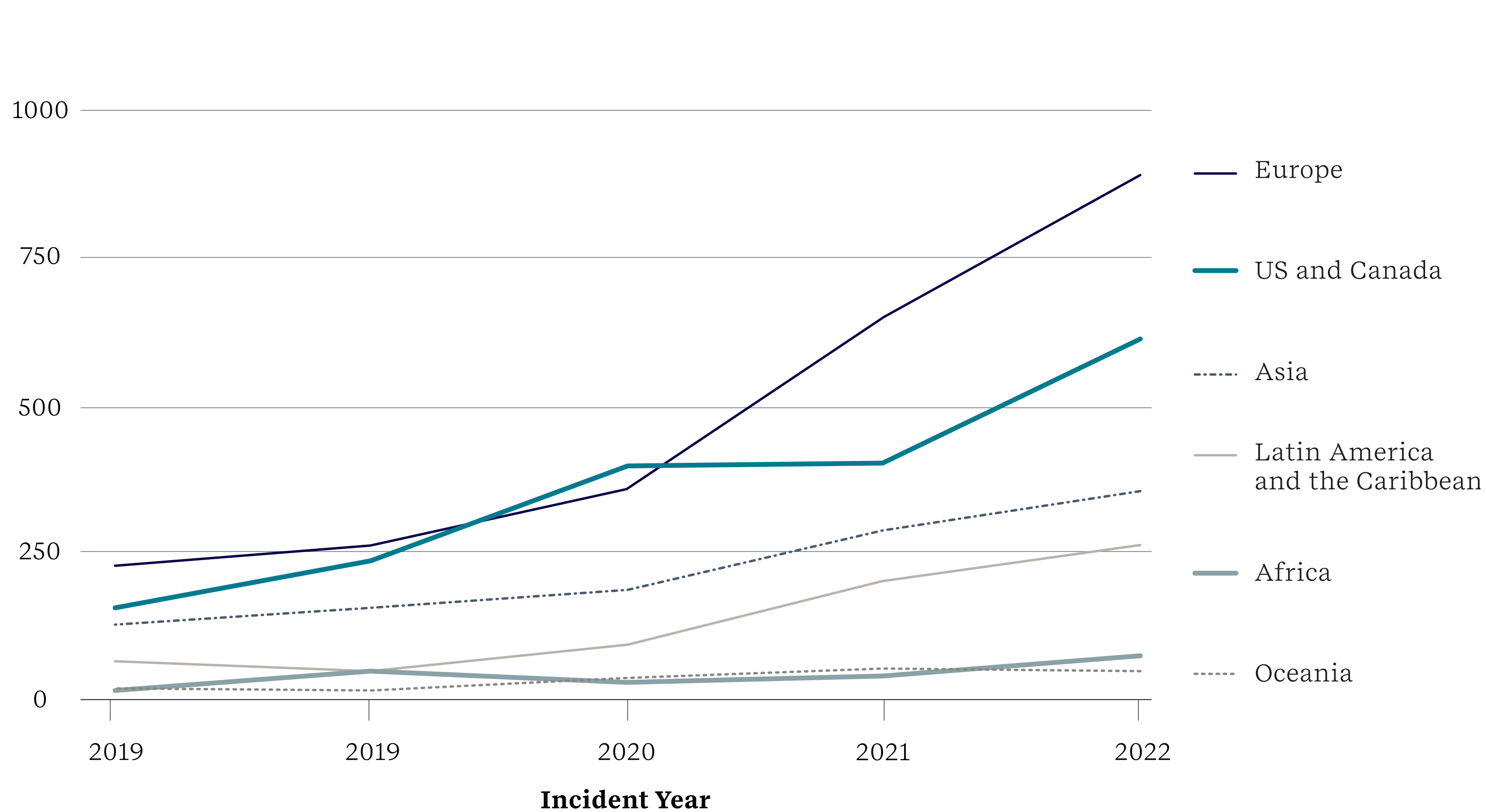
The anti-ESG camp is not alone in criticizing companies for their ESG-related activities: others are increasingly accusing companies of greenwashing (making false or misleading statements about the environmental impact of products and services). For example, Irish low-cost airline RyanAir was criticized by the Netherlands Authority for Consumers and Markets for making 'alarmingly misleading' statements and suggestions about their carbon offset claims.⁷⁰ An October 2023 study by ESG data provider RepRisk found greenwashing to be at an all-time high, with the banking and financial services sector being particularly exposed (the sector saw a 70 percent increase in climate-related greenwashing incidents in 2023 compared to 2022).⁷¹ The current state of ESG has also resulted in an increase in 'greenhushing', where companies deliberately downplay or do not disclose sustainability-related goals and activity.⁷²



But while the frequency of both greenwashing and greenhushing is increasing, many companies will soon be required to disclose certain ESG activity as regulatory requirements come into effect. The European Union’s Corporate Sustainability Reporting Directive (CSRD) is in force as of January 2023 and requires robust ESG-related disclosure. Similarly, the state of California signed SB 253 and 261 into law, which will require companies to disclose Scopes 1, 2, and 3 emissions along with climate-related financial risks and associated mitigation strategies beginning in 2026 with 2025 data.^{73, 74}

Companies also continue to recognize the value that ESG brings to their business on top of disclosure compliance. According to a 2023 survey of more than 1,300 Global CEOs, 69 percent of companies have fully embedded ESG into their business as a means to value creation. However, 68 percent of these CEOs believe that their current ESG progress is not strong enough to withstand potential scrutiny.⁷⁵

Figure 4: Greenwashing risk accelerates for companies headquartered in Europe and North America



Number of greenwashing incidents across geographies between 2018 and 2022

Source: Rep Risk

The corporate response

Corporate responses to the current ESG environment vary, where some companies are leaning into ESG in anticipation of its continued integration into business while others sit in holding patterns as the future of ESG is shaped. But as ESG re-accelerates in 2024, we expect investors to continue leveraging ESG in their investment decision making processes while corporates tackle the data problem to enhance their ESG performance and disclosure.

Investors will continue to favor high ESG performers despite anti-ESG legislation and declining fund inflows

Anti-ESG fund flows peaked in Q3 2022 at \$376 million but have since found limited success, losing an average of \$1.2 million each quarter between 2017 and 2022.⁷⁶ Even with this limited success, the anti-ESG movement has had a measurable impact on ESG investing as a whole. Anti-ESG pressure (combined with greenwashing concerns) has influenced a sharp decline in inflows to responsible investment funds, dropping from \$558 billion in 2021 to \$158 billion in 2022 and only \$68 billion through November 30th of 2023.⁷⁷

Despite that, many investors still consider ESG performance in their portfolios and are in favor of comprehensive ESG disclosure, and this trend will continue in 2024. A 2023 PwC investor survey found a significant rise in respondents believing their investments are exposed to ESG-related risks like climate change and social inequality, while 70 percent of respondents agree that companies should directly embed ESG into their corporate strategy.⁷⁸ Similarly, the 2023 ISS policy survey found that 85 percent of investors would not be tolerant of policies that would reduce the transparency of ESG-related disclosures.⁷⁹ While investors may not be allocating as much capital towards ESG-specific funds, they continue to consider ESG-related factors in investment decision making while demanding comprehensive disclosure from their portfolio companies.

Inflows to ESG-related funds may take time to recover, but we expect investors will increasingly consider ESG-related factors in their overall investment portfolios in 2024. Companies will respond by enhancing their ESG-related risk and opportunity analysis and improving relevant disclosure processes to provide investors with more comprehensive information to consider in their investment decision making process.

Corporates will take action to avoid greenwashing claims

Companies will continue focusing on limiting their exposure to greenwashing in 2024, which presents material risks to their operations. Investors are pulling away from sustainability-related funds partially due to concerns over greenwashing and an opaque definition of what constitutes a ‘green’ investment. Consumer concerns of greenwashing and the associated backlash is just as material: companies that are perceived to be greenwashing suffer a 1.34 percent drop in customer satisfaction scores, a seemingly small yet influential figure that translates to a material decline in net earnings and return on investment.⁸⁰

Companies will need to closely track the actions of regulators, who are reacting by providing a clearer definition of greenwashing and imposing penalties on companies accused of false claims. In addition to their EU Taxonomy regulation, the EU has reached a provisional agreement on rules to ban greenwashing where companies will have to provide “proof of recognised excellent environmental performance” when claiming products and services are ‘climate neutral’ or ‘eco-friendly’.⁸¹ Companies accused of greenwashing could

face fines up to four percent of their total annual revenue. The UK published similar rules in 2023, and the US is expected to follow suit in 2024.^{82, 83}

As part of their efforts to limit exposure to greenwashing claims in 2024, companies are likely to gradually transition from using sustainability as a marketing tool, instead providing stakeholders with more information on products and services to make their own decisions. Increased regulatory pressures will improve the transparency and accountability of corporate disclosures, forcing companies to take a closer look at their supply chains. While it is unlikely that greenwashing will end in 2024, companies will have a more structured definition of acceptable practices and stronger motivation to avoid greenwashing throughout their value chains

Companies will enhance data collection and reporting processes to leverage higher quality ESG data

Improving the quality, comprehensiveness, and disclosure of ESG data will be another major focus for companies in 2024. A 2023 Bloomberg survey found that 55 percent of executives see evolving ESG data as a major challenge, and 48 percent identified linking new content to existing data as a primary challenge.⁸⁴ Fortunately, solutions for the ESG data problem are beginning to emerge.

One of the most effective solutions is establishing a collaborative, firmwide ESG data strategy. While only 29 percent of companies responding to the Bloomberg survey reported taking this approach, more companies are building out centralized, cross functional ESG data

management teams to manage and drive a collaborative process.⁸⁵ These teams need capable collection and tracking tools and are increasingly employing ESG data tracking platforms to streamline data collection and disclosure processes. The ESG data software market is expected to grow to nearly \$4.5 billion by 2027 to help meet this demand.⁸⁶

Disclosure itself will also improve the quality and consistency of ESG data. Frameworks and standards promote consistency and comparability, particularly as standards converge as seen with the International Sustainability Standards Board (ISSB). Corporates aligning with disclosure requirements will need to receive third party data assurance, encouraging an even higher standard for ESG data quality.⁸⁷

Corporates will address the ESG data problem in 2024 by leveraging these solutions as their data pools expand and stakeholders demand more extensive disclosure. Centralized data management teams will collect and report higher quality ESG data allowing for better assessment of ESG performance, streamlined disclosure processes, and optimization of operational efficiencies. Though the ESG data problem will not vanish overnight, we expect the coming year to be a major turning point towards higher quality and consistency in ESG data.

“More companies are using automated greenhouse gas management software as they realize the demand for this data is only likely to increase. Using data software will not only take less time and money, but will also yield higher quality data that meets the requirements of their regulators and third-party verification. Ultimately, they will be able to spend more time and resources leveraging their data to reduce their carbon footprint rather than just collecting and disclosing.”

Liza Johnson

Managing Consultant, Corporate Sustainability & Climate Change, ERM

Action recommendations

Companies looking to modify how they integrate ESG to ensure they appropriately respond to the trends shaping the space should consider pursuing the following actions:

- Conduct a thorough review of ESG-related regulations to determine which updates the company will be subject to and how they might impact strategy and disclosure activities.
- Evaluate the company's exposure to anti-ESG regulation and stakeholder pressure to determine if and how it may impact the organization's strategy and performance.
- Review the company's ESG- and sustainability-related claims to determine where there may be risks for greenwashing accusations.
- Consider building a centralized ESG data management team and employing digital data management solutions to improve the company's data collection and disclosure processes; integrate these systems and their findings into performance management systems.



TREND 4

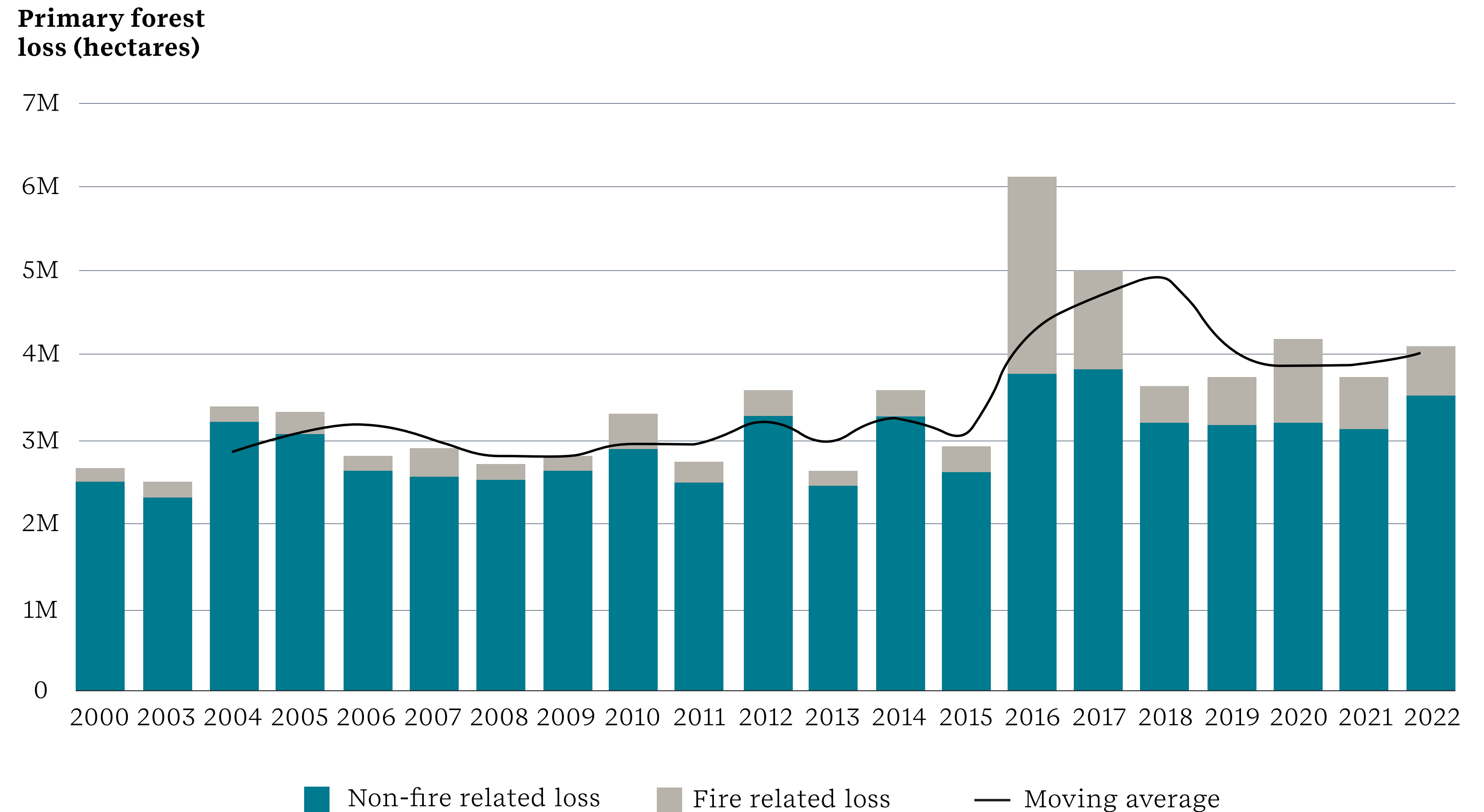
Safeguarding natural systems

Key accelerators

- Nature loss continues to accelerate.
- Governments worldwide expand actions to protect nature.
- Nature-related disclosure developments like the launch of Taskforce on Nature-related Financial Disclosures bring structure to a previously muddled space.

The world celebrated after negotiators at the 15th UN Biodiversity Conference (COP 15) in Montreal agreed to the Kunming-Montreal Global Biodiversity Framework (GBF) in late 2022, which outlines goals and targets for “a world living in harmony with nature by 2050.”⁸⁸ However, nature loss continues to accelerate globally. In 2022 (the latest full year with data available), global deforestation increased four percent from 2021 to 6.6 million hectares.⁸⁹ Tropical forests, which are vital to sequestering carbon and home to incredible biodiversity, fared even worse with deforestation growing by ten percent in 2022. Biodiversity is not faring well worldwide either.⁹⁰ One notable 2023 study found that the populations of 48 percent of the world’s species are declining on the way to extinction.⁹¹

Figure 5: Tropical primary forest loss between 2002 and 2022



Tropical primary forest loss between 2002 and 2022.

Source: [Global Forest Watch](#)

Facing continuing nature and biodiversity declines, governments are acting. In a first for the world's oceans, countries signed the United Nations High Seas Treaty in September 2023, establishing processes to develop marine protected areas in international waters.⁹² On land, the eight countries composing the Amazon basin signed the Belém Declaration in August 2023, which recognized the need to prevent ecological collapse and combat deforestation in the Amazon.⁹³ Although the declaration fell short of hopes for a shared quantitative goal to reduce deforestation, other countries within the basin are acting unilaterally to do so. In June 2023, Brazilian President Luiz Inácio Lula da Silva unveiled a new strategy to end illegal deforestation in the Amazon and achieve net zero deforestation by 2030.⁹⁴

The European Union (EU) also made significant moves to protect nature. In April 2023, it adopted a law mandating that companies confirm that products sold in the bloc have not contributed to deforestation or forest degradation directly or through their supply chains.⁹⁵ Then, in November 2023, came an agreement between the EU Parliament, Commission, and Council to restore 30 percent of the bloc's degraded lands by 2030 and 90 percent by 2050, although the proposed law must still be approved by member states.⁹⁶

Notable nature-related developments occurred in the non-governmental space too. After years of development, the Taskforce on Nature-related Financial Disclosures (TNFD) released its final Recommendations on nature-related risk management and disclosure in September 2023.⁹⁷ The final publication includes 14 disclosure recommendations and accompanying implementation guidance for companies. Taking inspiration from the Task Force on Climate-related Financial Disclosures (TCFD), the TNFD recommendations are in accordance with the International Sustainability Standards Board (ISSB) and the Global Reporting Initiative (GRI) reporting standards and aligned with the Kunming-Montreal GBF. Also in the disclosure space, CDP added new biodiversity-focused questions in 2023 to evaluate how companies assess their value chain's biodiversity impacts and their operations in or near biodiversity-sensitive areas.⁹⁸



The corporate response

With the worsening state of the natural world and society's efforts to reverse declines falling short, developments that aim to accelerate corporate action like the TNFD are welcome. In addition, companies are pursuing other positive actions like expanded nature-related reporting and target-setting, new approaches to financing, and regenerative agriculture.

Companies expand nature-related reporting as disclosure landscape matures

The nature-related reporting landscape is maturing rapidly as the TNFD plus reporting frameworks like the ISSB and GRI better define the space and stakeholders demand clearer disclosure. The landscape is still early days though. In 2022, only 46 percent of the world's largest 250 companies disclosed any nature-related information, and only 38 percent of companies reporting to CDP disclosed nature-related information in 2023.^{99, 100}

Despite these low percentages, there are signs of improvement. One December 2023 analysis of the world's largest 500 companies found a 7.2 percent rise in the share of companies either reporting on or setting targets for biodiversity from 2022 to 2023.¹⁰¹ The same analysis found an even larger 18 percent rise in the share of companies pursuing forest-related reporting and target setting over the same period.

Company participation in emerging frameworks like the TNFD and Science Based Targets for Network (SBTN) shows further acceleration is likely. Some 70 percent of businesses across 36 countries surveyed by TNFD in mid-2023 shared that they plan to align their nature-related disclosures with the final TNFD recommendations by their 2025 financial year or sooner.¹⁰² The SBTN, which outlines five steps for companies to determine their nature-related impacts and dependencies and set targets to manage them, tells a similar story.¹⁰³ Launched in May 2023, 115 companies across 25 countries helped develop SBTN's five steps, and a further 120 companies across 30 countries participate in the SBTN Corporate Engagement Program.^{104, 105}

Nature-related financing to grow in scale and impact

Last year, we outlined how financial companies were likely to closely consider their nature-related impacts and risks. In 2024, the finance industry is poised to transform their nature-related activities beyond reactive mitigation.

Nature Action 100's launch in September 2023 is one of the most notable examples of this shift.¹⁰⁶ Inspired by Climate Action 100+, Nature Action 100 unites 190 institutional investors to push the companies with the greatest impact on nature to protect and restore nature and thus reduce financial risk through its Investor Expectations for Companies.^{107, 108} One of the finance initiatives we covered last year, the Finance for Biodiversity Pledge, has grown in scale and scope.¹⁰⁹ As of December 2023, 153 financial institutions with over \$22 trillion in assets had signed the pledge, up from 111 institutions and \$17 trillion in assets in December 2022. In November 2023, the initiative launched its Nature Target Setting Framework to help signatories set targets to ensure their portfolios are on track to halt and reverse biodiversity loss by 2030.¹¹⁰

Individual finance companies are acting to protect nature in creative ways as well. In February 2023, J.P. Morgan Global Alternatives acquired more than 250,000 acres of commercial timberland in the southeastern U.S. for carbon capture and sustainable timber production purposes.¹¹¹ Across the Atlantic, South African financial services firm Standard Bank finished its first nature conservation financing project in October 2023, supporting the conservation company Wilderness' efforts to protect wild areas in new markets.¹¹²

Regenerative Agriculture becomes essential to agribusiness value chains

In our 2022 Trends Report, we predicted that more companies would pursue regenerative agriculture to reduce their impacts on nature and their carbon emissions. Today our prediction is coming to fruition as companies around the world adopt practices to improve and restore soil health. One study of 79 global food and retail companies with a combined market capitalization of more than \$3 trillion found that 50 discuss their regenerative agriculture practices in public reporting.¹¹³

Walmart is one of the most active companies in the space. It launched a new collaboration with PepsiCo in July 2023 to facilitate the adoption of regenerative agriculture practices on over 2 million acres by 2030, and, in October 2023, it announced a partnership to source ingredients from 600,000 acres on which General Mills employs regenerative agriculture practices.^{114, 115} Beyond retailers, Mexican food producer Grupo Bimbo launched a regenerative agriculture action plan in June 2023 to help it achieve its goal to source 100 percent of its key ingredients from regenerative agriculture by 2050.¹¹⁶ The plan includes key actions such as developing internal skills and scaling strategies to expand the company's use of regenerative agriculture practices through pilot projects and supply chain partnerships.

As regenerative agriculture becomes an essential part of agribusiness value chains, the Sustainable Agriculture Initiative Platform (SAI Platform) will help. Released in September 2023, SAI Platform designed Regenerating Together to help agribusiness companies transition their operations and supply chains to regenerative agriculture practices.¹¹⁷



Action recommendations

Companies looking to modify how they respond to nature and biodiversity matters to ensure they appropriately respond to the trends shaping the space should consider pursuing the following actions:

- Identify the nature-related issues most material to your business and develop a bespoke disclosure and management strategy for them based on the geographic- sector-, and operational-specific factors unique to your business. Because of the nature space's complexity, one companies' actions will likely not be the actions of another company.
- Review the nature-related expectations of your companies' investors to ensure your actions align with them and will enable you to continue to access financing as these expectations grow.
- Using a systems perspective, look for opportunities to connect your company's nature actions to its wider sustainability initiatives. By focusing on nature and other interconnected sustainability issues simultaneously, your company's ability to scale nature and broader sustainability benefits will be multiplied.
- If your company operates in the agribusiness sector, evaluate where regenerative agriculture practices can fit into your operations or that of your value chain partners and build the internal expertise and skillsets to do so.
- Evaluate the exposure your company and its value chain have to natural disasters and determine where nature-based resiliency measures can help mitigate risk and generate positive benefits for ecosystems.

“Companies’ should proactively pursue the nature-related actions that will add the most value to their businesses, whether they be investing in nature-based resiliency measures or cleaning up or protecting ecosystems. Identifying these actions will require looking beyond balance sheets to uncover nature-related issues that were once considered externalities but do, in fact, have an associated financial impact.”

Tommy Polzin
Partner, ERM



TREND 5

Streamlining sustainability disclosure

Key accelerators

- ESG- and sustainability-related disclosure frameworks and standards proliferate globally.
- ISSB releases new standards and California adopts climate rules.
- CSRD enters its second year of operation, its impact is felt by companies far beyond the EU borders.
- Double materiality becomes the dominant standard and foundation for ESG disclosure.

A new era for ESG- and sustainability-related disclosure began in 2023. At the start of the year, the European Union's Corporate Sustainability Reporting Directive (CSRD) came into force, representing the most ambitious attempt to put non-financial disclosures on an equal footing with financial reporting.¹¹⁸ The CSRD's reach is wide, with 50,000 companies expected to fall under its jurisdiction, 10,000 of which are headquartered outside of the EU.¹¹⁹

Similarly, the International Sustainability Standards Board (ISSB) issued its IFRS S1 and S2 disclosure standards in June 2023, creating a global baseline for sustainability disclosure.¹²⁰ The standards can be used in a voluntary capacity by companies, or their use can be mandated by regulations such as those proposed by Singapore and Hong Kong.^{121, 122}

And as nature and biodiversity become more widely recognized priorities, the Taskforce on Nature-related Financial Disclosures (TNFD) finalized its final Recommendations on nature-related risk management and disclosure in 2023.¹²³ They are expected to elevate nature and biodiversity reporting by providing a formal framework for companies to report on their nature-related risks and opportunities.

The disclosure landscape is likely to be just as active in 2024. After several delays since being first proposed in 2022, the U.S. Securities and Exchange Commission's (SEC) Climate-related Disclosure Rule is expected to be finalized this year.¹²⁴ Similarly, the Australian Accounting Standards Board (AASB) released a proposal that would require companies to disclose climate-related information in their general financial reporting starting as early

as July 2024.¹²⁵ China is also reportedly developing an ESG-related disclosure rule for public companies and is likely to use the ISSB's standards as required disclosure.¹²⁶ Other jurisdictions are expected to utilize ISSB as an 'off the shelf' option for sustainability disclosure, as countries including Singapore, Canada, Brazil, Nigeria, and others have proposed.¹²⁷

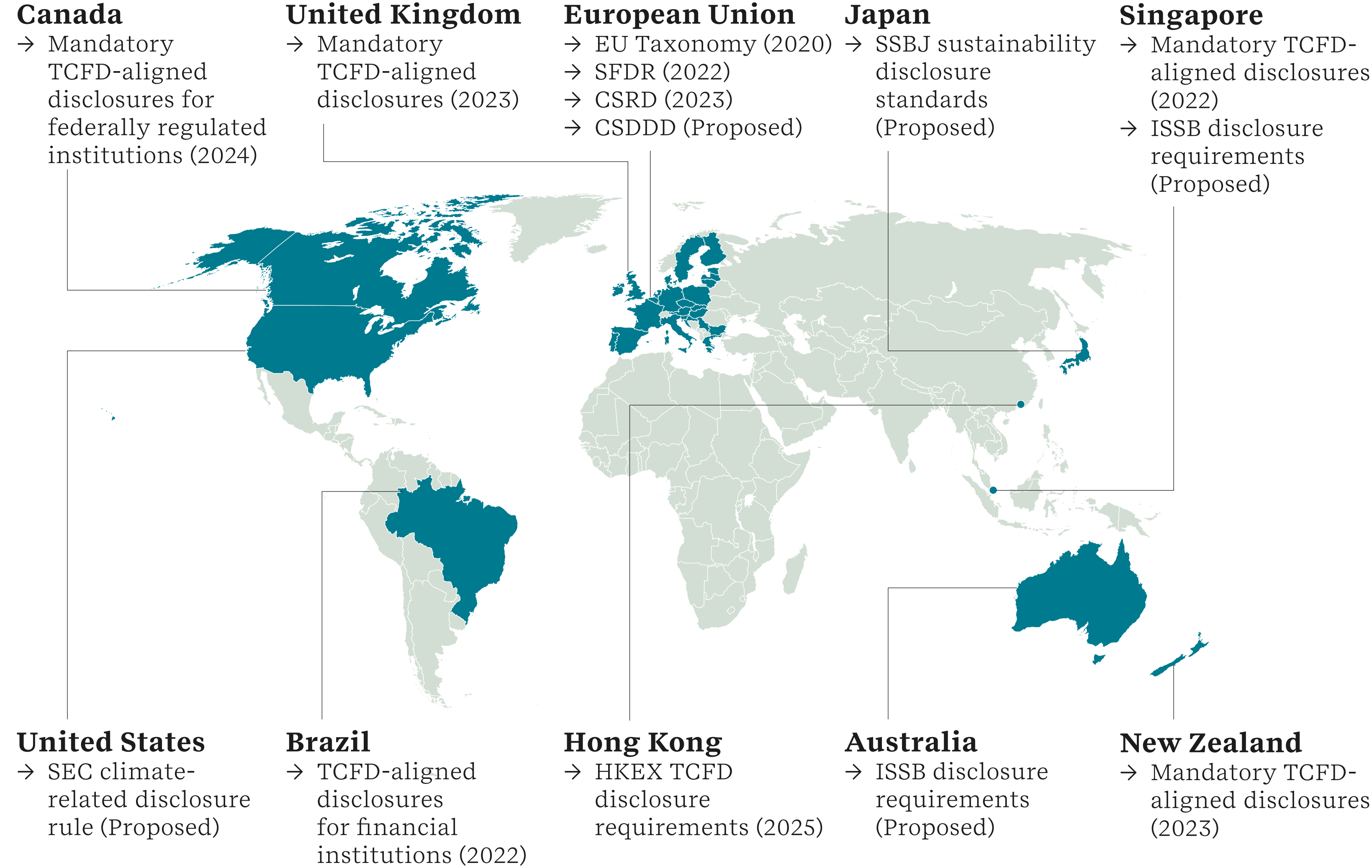
The line between voluntary and mandatory disclosures is blurring as regulatory requirements leverage voluntary frameworks and standards in mandatory disclosure processes. For example, the CSRD is closely aligned with the Global Reporting Initiative (GRI) and the Task Force for Climate-related Financial Disclosures (TCFD), a move intended to encourage consistency and comparability of data across industries and geographies. The convergence of voluntary standards is likely to have a similar impact on consistency and comparability: the International Financial Reporting Standards (IFRS) has merged several standards under the umbrella of the ISSB, including organizations such as CDP, SASB, and beginning in 2024, the TCFD in their attempt to create a global disclosure baseline.¹²⁸ The use of the ISSB's standards as mandatory disclosures in certain regulations further muddles the lines between voluntary and mandatory; international companies may find themselves aligning disclosures with several standards to comply with both stakeholder requests and regulatory requirements.

In addition to encouraging consistency and comparability of ESG disclosures, convergence of frameworks and standards is intended to reduce the reporting burden companies face. This burden is becoming heavier, as evidenced by companies increasing resource allocation towards ESG-related data. A 2023 survey found that

92 percent of executives planned to increase their spend on ESG data by at least 10 percent over the year, with nearly a fifth planning to increase spend by 50 percent or more.¹²⁹ Much of this spend will likely be used to grow ESG teams: the number of ESG-related jobs in India grew by 223 percent between 2019 and 2023, in no small part due to increasing reporting and disclosure requirements imposed on companies.¹³⁰ Though frameworks, standards, and regulations aim to limit the additional burden imposed on reporting entities, companies are increasingly responding by allocating more resources towards their ESG disclosure and wider sustainability capabilities.

Companies may benefit from the more effective disclosure these regulations are likely to generate as they will help them identify additional risks and opportunities, secure internal buy-in, increase resource efficiencies, and open access to (and reduce the cost of) capital.¹³¹ As disclosure requirements continue to come into force in 2024 and beyond, those companies that leverage disclosure into value generating activities are likely to stay ahead of the curve and maintain their positions as sustainability leaders.

Figure 6: Major ESG disclosure regulations in global markets



Source: Worldfavor Guide: The sustainability reporting playbook

The corporate response

The elevation of non-financial reporting is requiring companies to allocate more resources towards ESG disclosure to comply with relevant regulation and stakeholder requests. In response, companies are increasing collaboration across business functions to streamline efficiencies in disclosure processes and leverage insights from activities like double materiality assessments in wider business strategies.

Disclosure regulations will encourage increased cooperation across business functions

Given the wide range of topics and metrics sustainability-related disclosures cover, cross-functional cooperation is key to efficient data collection, accurate disclosure, and incorporating decision-useful information. As companies report in line with ESG-related disclosure requirements, this cooperation is likely to increase and ESG will be further integrated throughout the business.

Cross-functional cooperation on ESG has been particularly evident within financial operations. According to one January 2023 Survey, 41 percent of global middle market CFOs planned to incorporate ESG in their financial strategies over the course of 2023, up from 36 percent the year prior.¹³² A 2023 report highlights the resources needed to comply with ESG requirements, indicating that companies potentially subject to the SEC's proposal are reassigning staff from finance departments to ESG-related disclosure roles and appointing "ESG controllers" to ensure that non-financial data is collected and disclosed using the same systems used in producing financial statements.¹³³

But there is still room for improvement, even where finance functions are better integrated with sustainability. A May 2023 survey of more than 500 finance leaders across Europe found that, while 85 percent of respondents have a fairly or highly collaborative relationship with sustainability functions, 44 percent only plan to further optimize collaboration between finance, sustainability, and risk, and control functions.¹³⁴

"There are not enough ESG professionals to support upcoming disclosure requirements, so companies will have to build capabilities of existing staff who have been gathering ESG-related data. They will need to move from a siloed, patchwork process towards a structured data collection and reporting strategy. This will require upskilling other business functions to support effective and efficient ESG disclosure."

Onur Durmus

Sustainable Operations Regional Services Lead,
ERM

Companies will shorten supply chains and simplify disclosure in response to regulation

Confidence in ESG-related data is a major challenge to corporate reporting processes. According to a January 2023 survey of 300 C-suite executives and supply chain officers, 51 percent identified defining process and governance steps to have confidence in ESG data and reporting as a challenge, while another 22 percent expect it will become a challenge in the next one to three years.¹³⁵ Confidence (or lack thereof) in ESG data is often influenced by the quality of data received from a supply chain partner, where long supply chains can often muddle the quality and reliability of disclosures.

Several regulatory and disclosure rules will soon require companies to elevate their scrutiny of ESG-related data, in turn requiring the same from their value chain partners. The EU's Corporate Sustainability Due Diligence Directive (expected to come into force in 2025) and Germany's Supply Chain Act (in force as of 1 January 2023) will require companies to identify and disclose potential human rights and environmental risks throughout their supply chains.^{136, 137} And, though not a disclosure-specific regulation, the EU's Carbon Border Adjustment Mechanism (CBAM, in force as of 1 October 2023) will impose a tax on imports of carbon-intensive goods such as cement and steel.¹³⁸ Most of the major ESG-related disclosure requirements such as the CSRD also include emissions components, which may influence how corporates address their emissions and approach their net zero ambitions.

As ESG-related regulation increases, assurance requirements for ESG data impose a cost on those products that do not meet certain criteria. As a result, companies are likely to shorten their supply chains to improve the quality and consistency of their disclosures and data.

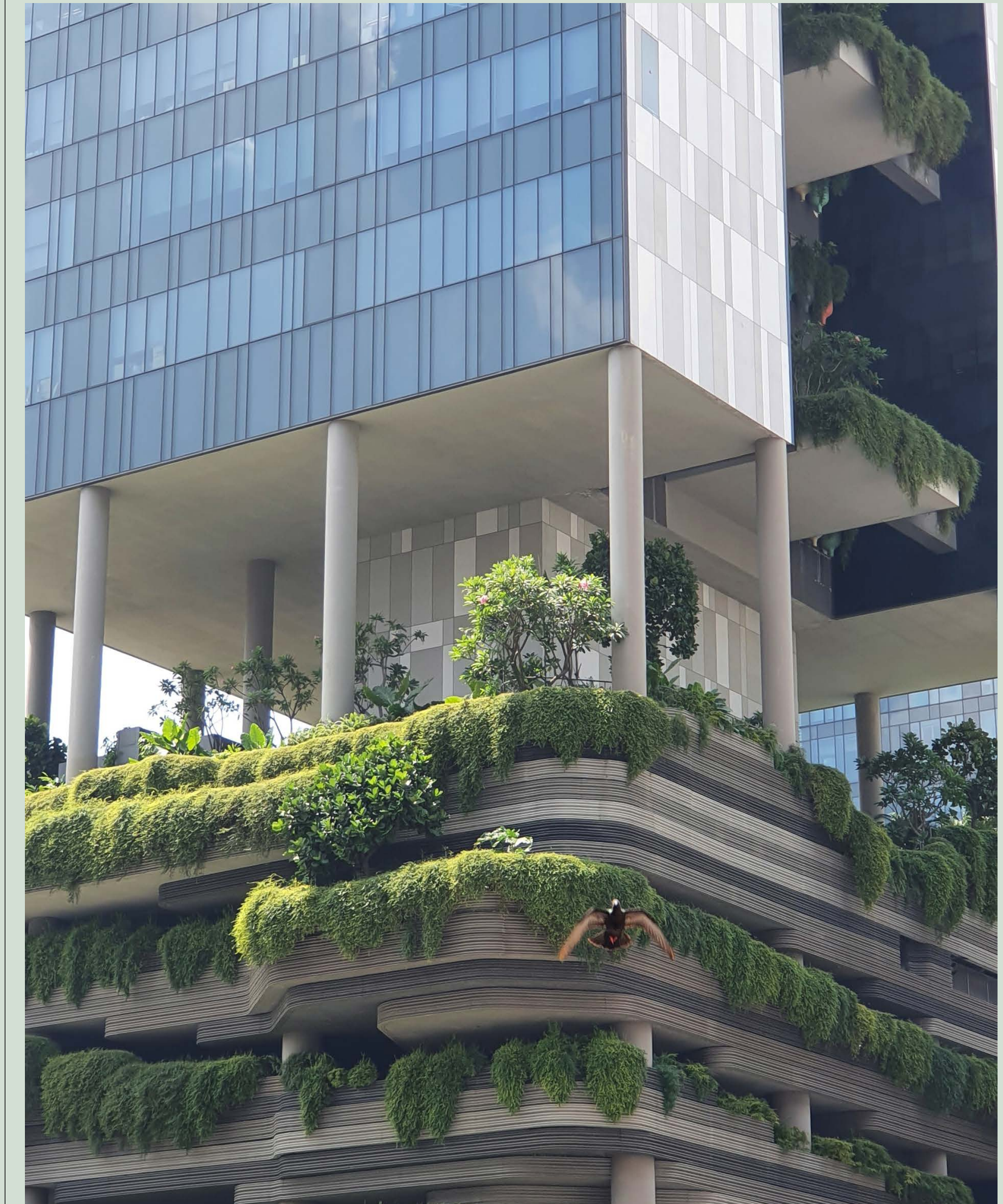
Double materiality will become the new norm

The CSRD will raise the bar for what good disclosure looks like, and companies will have to align their activities with the CSRD's requirements to maintain best practice. According to a survey of finance professionals, 59 percent of EU companies who are not subject to the CSRD still plan on aligning their integrated reporting strategies with its requirements.¹³⁹

A key component of CSRD alignment is conducting a double materiality assessment to identify and assess the impacts a company has on society and environment along with the ESG-related risks and opportunities material to the company.¹⁴⁰ Ultimately, companies conducting double materiality assessments will be able to more effectively integrate sustainability into their strategy and risk management processes.

Stakeholders like investors and value chain partners will demand information gleaned from a double materiality assessment while leading companies will leverage insights to transform internal processes. Even if a company is not directly subject to the CSRD, they may find themselves needing to align their disclosure processes and conduct a double materiality assessment to keep up with stakeholder demands and maintain a competitive edge.

In response, we expect more companies to conduct double materiality assessments to prepare for disclosure requirements and align with best practice. As the CSRD raises the bar for high-quality sustainability disclosures, we expect double materiality to become the norm in 2024 and beyond.



Action recommendations

Companies looking to modify how they approach sustainability disclosure matters to ensure they appropriately respond to the trends shaping the space should consider pursuing the following actions:

- Conduct a thorough review of relevant disclosure regulations and requirements. Companies may be subject to multiple regulatory requirements across jurisdictions, and stakeholders may request alignment with regulations even if the company is not within its jurisdiction.
- Translate disclosure activities into value added exercises. Activities such as double materiality assessments should be leveraged for decision-useful information. Disclosures can be used for benchmarking, performance and gap assessment, strategy development, and other value-add exercises.
- Do not wait for regulation to start your sustainability disclosure activities. Companies should begin their disclosure journeys now to better prepare for future requirements and improve their sustainability-related performance.
- Conduct a double materiality assessment to determine your company's impact on society and the environment along with ESG-related issues material to the company's performance. Further guidance on double materiality can be found in [Implementing the CSRD: Preparing for a New Era of ESG Disclosure](#).





TREND 6

Building sustainable and resilient supply chains

Key accelerators

- Evolving regulatory landscape demands supply chain transparency and disclosure.
- Consumer and other stakeholder expectations for supply chain transparency rise.
- Suppliers and buyers emphasize supply chain decarbonization.
- Cyber-attacks continue to expose supply chain vulnerabilities.

As global supply chains grow more complex and transparency becomes more important, new and emerging regulations are reshaping supply chain traceability. The new rules are compelling businesses to adopt robust systems that ensure accountability and visibility throughout their supply chains. The European Union, for example, recently adopted the Corporate Sustainability Due Diligence Directive, establishing a legal framework that requires companies to identify, prevent, eliminate, or mitigate the adverse impacts of their operations and supply chains on human rights and the environment. In Canada, the Modern Slavery Act came into law in May 2023.¹⁴¹ The law establishes requirements for companies and government organizations in Canada to report on how they address forced and child labor risks in their operations and supply chains. Similarly, New Zealand's government announced in July 2023 that they are in the process of developing their own Modern Slavery Act.¹⁴²

Consumer expectations are also rising, particularly regarding ethical and sustainable consumption practices.^{143, 144} For instance, researchers at the MIT Sloan School of Management found that consumers may be willing to pay two to ten percent more for products from companies that provide greater insight into their supply chains.¹⁴⁵

Other stakeholders are driving demand for transparency. For example, sourcing certification schemes including Fair Trade, Cradle to Cradle Certified, The Global Organic Textile Standard (GOTS), and Rainforest Alliance Certified, require ever greater supply chain transparency from companies seeking certifications to create sustainability benefits, prevent reputational damage, and support sustainability claims and disclosures.^{146, 147, 148, 149}

As stakeholders push companies to address supply chain impacts, businesses feel intense pressure to fulfill responsible sourcing obligations. Investors and companies say poor visibility into sustainable sourcing is one of the largest supply chain risks currently, with many lacking full visibility, and some having no visibility at all.^{150, 151} With limited transparency, companies can be slow to adapt to supply chain disruptions, and/or may suffer quality control issues, increased operational costs, inefficiency, or reputational damage.¹⁵² Although mapping a supply chain is often a large time and resource investment, doing so can help build consumer trust, improve adaptability, and reduce operational expenses.¹⁵³

Companies are also increasingly relying on supply chain decarbonization to meet their climate goals. A company's supply chain often accounts for more than 90 percent of its GHG emissions, posing both challenges and opportunities to corporate climate action.¹⁵⁴ While many Scope 3 reductions pay for themselves in the long run, there are often short-term costs related to data collection, sustainable materials sourcing, and supplier climate engagements.¹⁵⁵ Further, while supply chain decarbonization efforts require significant financial capital, there is still debate on who pays, buyers or suppliers.¹⁵⁶ Some companies are working directly with

suppliers to reduce their emissions and fronting the cost, while others unload the work and cost onto their supplier base and demand that suppliers figure out decarbonization as a cost of doing business.^{157, 158}

To maintain a resilient supply chain, cybersecurity is a key aspect companies must address. Supply chain security breaches increased by 26 percent from 2022 to 2023, exposing an array of vulnerabilities.¹⁵⁹ Cyber-attackers often gain supply chain access through third-party open-source repositories, public source code, and login credentials. Access to organizational data and systems, along with vendor data, can leave companies vulnerable to disruption. The impacts of successful attacks are significant, with the average data breach costing companies \$4.45 million, plus a host of secondary costs and consequences.¹⁶⁰ In one real world example, the Clorox Company disclosed it was a victim of an August 2023 cyberattack that damaged part of its IT infrastructure and led to widespread disruptions of operations. Order processing delays led to production shortages, causing a 20 percent decline in net sales over the first quarter of 2024 and resulting in a \$356 million loss.¹⁶¹



The corporate response

As companies recognize the importance of decarbonizing their supply chains because of new regulations and increasing stakeholder awareness, investments in clean energy and due diligence are growing. Simultaneously, the pressing risk of cybersecurity disruption leaves supply chains vulnerable, highlighting the critical need for solutions to mitigate future threats.

Growing stakeholder awareness and consumer expectations causing companies to pursue supply chain due diligence

EcoVadis reported a dramatic 134 percent growth rate in the number of companies seeking sustainability assessments from the sustainability rater between 2018 and 2022.¹⁶² EcoVadis attributed this to “awareness around supply chain due diligence growth and more companies beginning to assess and monitor their suppliers.”

With stakeholder awareness of supply chain due diligence rising, companies are doubling their efforts. Global electronics producers have been frontrunners due in part to their sourcing of the conflict minerals (e.g., tin, tungsten, gold, and cobalt) frequently used in IT products. Companies such as Apple and Intel release responsible mineral sourcing policies and conflict minerals reports, detailing where they source materials and supplier performance standards.^{163,164} Holding true to its policies, Apple has broken ties with at least a dozen suppliers over concerns about conflict minerals violations.¹⁶⁵

The fashion industry is also confronting challenges with responsible sourcing. Two nonprofit groups, The Textile Exchange and Leather Working Group, launched a joint initiative in June 2023, asking fashion and other brands across industries to commit to sourcing bovine leather from deforestation- and conversion-free supply chains by 2030 or earlier.¹⁶⁶ This combined effort will provide better visibility into these long and complex supply chains and ensure companies follow deforestation/conversion-free practices. Brands including Adidas, BMW Group, H&M, and Reformation have already signed up to the program.

Rising consumer expectations are also pushing companies to utilize interactive labels on products to increase transparency. These labels often incorporate QR codes or augmented reality (AR) technology, allowing consumers to access detailed information about the product’s origin, manufacturing processes, and sustainability practices. For instance, the US-based fashion brand Reformation partnered with blockchain platform FibreTrace to provide customers with a QR code on certain garments, offering a verified step by step process of the garment’s lifecycle.¹⁶⁷

Companies to invest in supply chain decarbonization solutions

Companies are pursuing a variety of investments and initiatives to decarbonize their supply chains. As a group, in October 2023, a coalition of large U.S. companies including Meta, Nike, and PepsiCo announced the Clean Energy Procurement Academy, an initiative to address supply chain emissions by equipping companies with the skills and knowledge required to adopt clean energy.¹⁶⁸

Encouraging suppliers to transition to renewables is another way companies are reducing their carbon footprint. More than 300 of Apple’s manufacturers have now committed to using 100 percent clean energy in the production of Apple products by 2030.¹⁶⁹ In addition to renewable energy use in product manufacturing, decarbonizing shipping and distribution is also a business priority. For example, companies such as Amazon and DHL are investing in electric-fleet vehicles and alternative aviation and maritime shipping fuels.^{170,171} Similarly, Japanese shipbuilder Mitsui O.S.K. Line debuted new ship models at COP28 designed to integrate

wind and underwater turbines for green hydrogen production to reduce transit-related supply chain emissions.¹⁷²

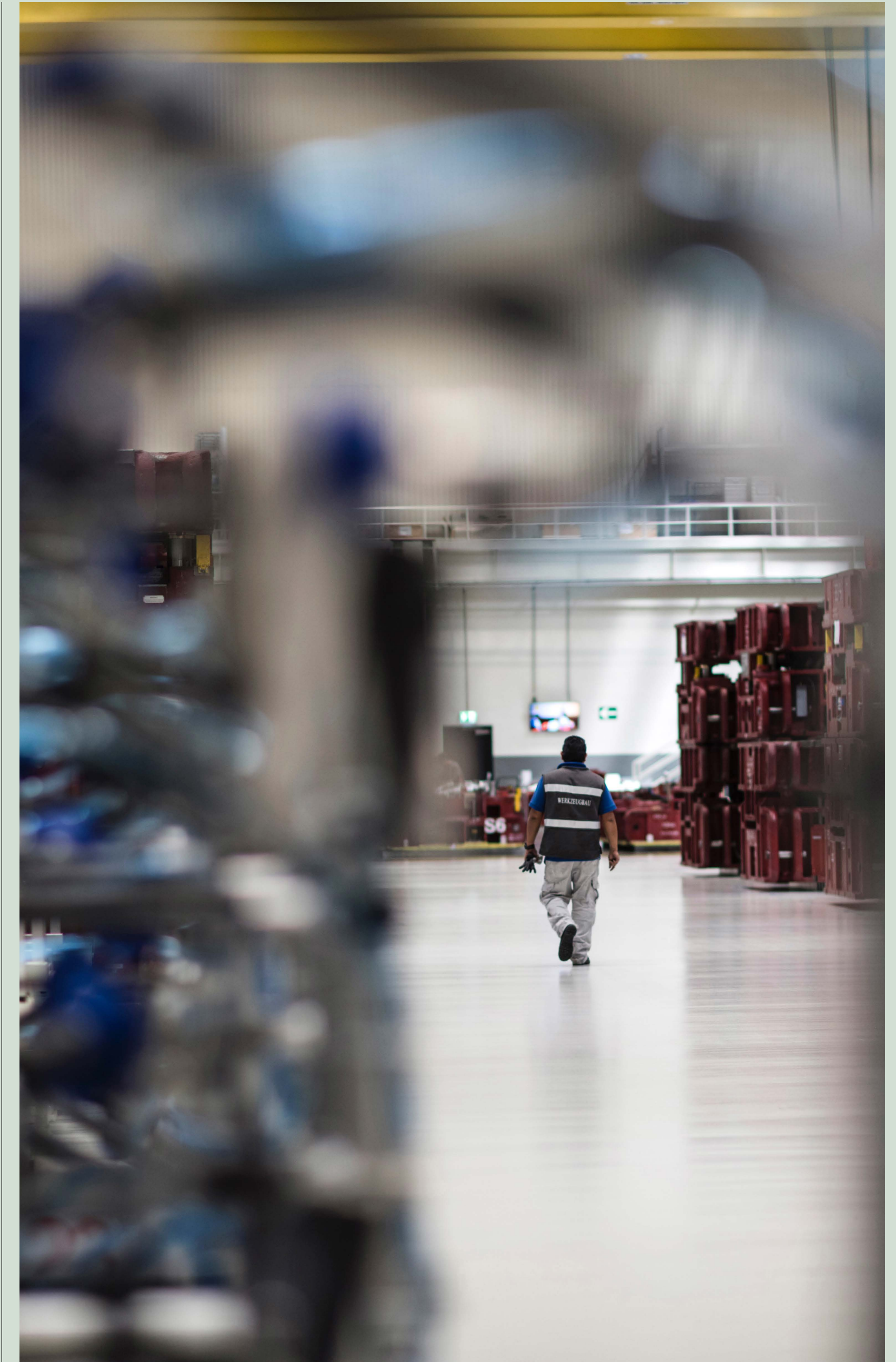
In a partnership benefiting both supply chain and operational decarbonization, building materials provider CRH and vehicle manufacturer Volvo Group signed a Memorandum of Understanding in November 2023 to accelerate net-zero innovations in on-road vehicles and off-road equipment used in construction.¹⁷³ CRH will help with sustainable innovation in construction, while Volvo Group's brands will contribute their expertise in sustainable transport and infrastructure solutions.

Cybersecurity threats leave businesses divided on response

Cyberattacks present ever-changing threats to businesses. Supply chains are particularly vulnerable as they often comprise thousands of vendors, any one of which could be the weak point at risk. Even so, businesses are divided in how they plan to handle the increasing cost and frequency of data breaches. A 2023 IBM report found that organizations were more likely to pass incident costs onto consumers than to increase security investments.¹⁷⁴ These consumers costs come in the form of increased prices for services and products to make up for lost revenue and costs related to data breaches. With costs being passed onto the consumer, 51 percent of the same organizations did not have plans to increase security investment.

In the automotive sector, the integration of infotainment systems and connectivity technology has introduced new cybersecurity threats. Over-the-air software updates and vehicle-to-vehicle communication are popular

features with drivers but can lead to ransomware attacks, phishing, and the hacking of vehicular systems. Research from August 2023 found that 64 percent of C-suite executives in the automotive sector believe their supply chains are vulnerable to cyberattacks, yet almost a third of these respondents fail to see value from their current cyber-defense investments.¹⁷⁵ Respondents state that jargon or confusing cybersecurity terms represent the largest barrier in developing a holistic understanding of cyber risk and strategies to combat it.



Action recommendations

Companies looking to modify how they approach supply chain matters to ensure they appropriately respond to the trends shaping the space should consider pursuing the following actions:

- Consider supply chain traceability in the initial phases of product development, sourcing, etc. Mandatory disclosure requirements are increasing and becoming more dynamic, so gaining insight into your supply chain well in advance or to avoid potential disruptions, from threats like cyberattacks, will enhance adaptability and preparedness.
- Work with Tier 1 and Tier 2 suppliers to push sustainability actions up the value chain. Engaging with suppliers can increase resilience to future risk or disruption and provide a valuable starting point for understanding and improving supplier sustainability performance.
- Regularly engage with industry and cross-industry publications and experts, participate in relevant conferences, and track upcoming regulations to stay informed about changes to the supply chain operational landscape. Establishing partnerships with regulatory compliance experts can also provide valuable insights and guidance for navigating the evolving regulatory space.

“Knowing what you do not know about your supply chain is the first step. Thoroughly understanding where all of your inputs are coming from, and where else you can source the same material from, is not a well-exercised muscle in most companies. Collaboration between and across industries is the key to success. Since most supply chains are shared across industries, e.g., renewables, technology, and chemical, the more everyone works together to push sustainability actions up the value chain, the faster these issues will be resolved.”

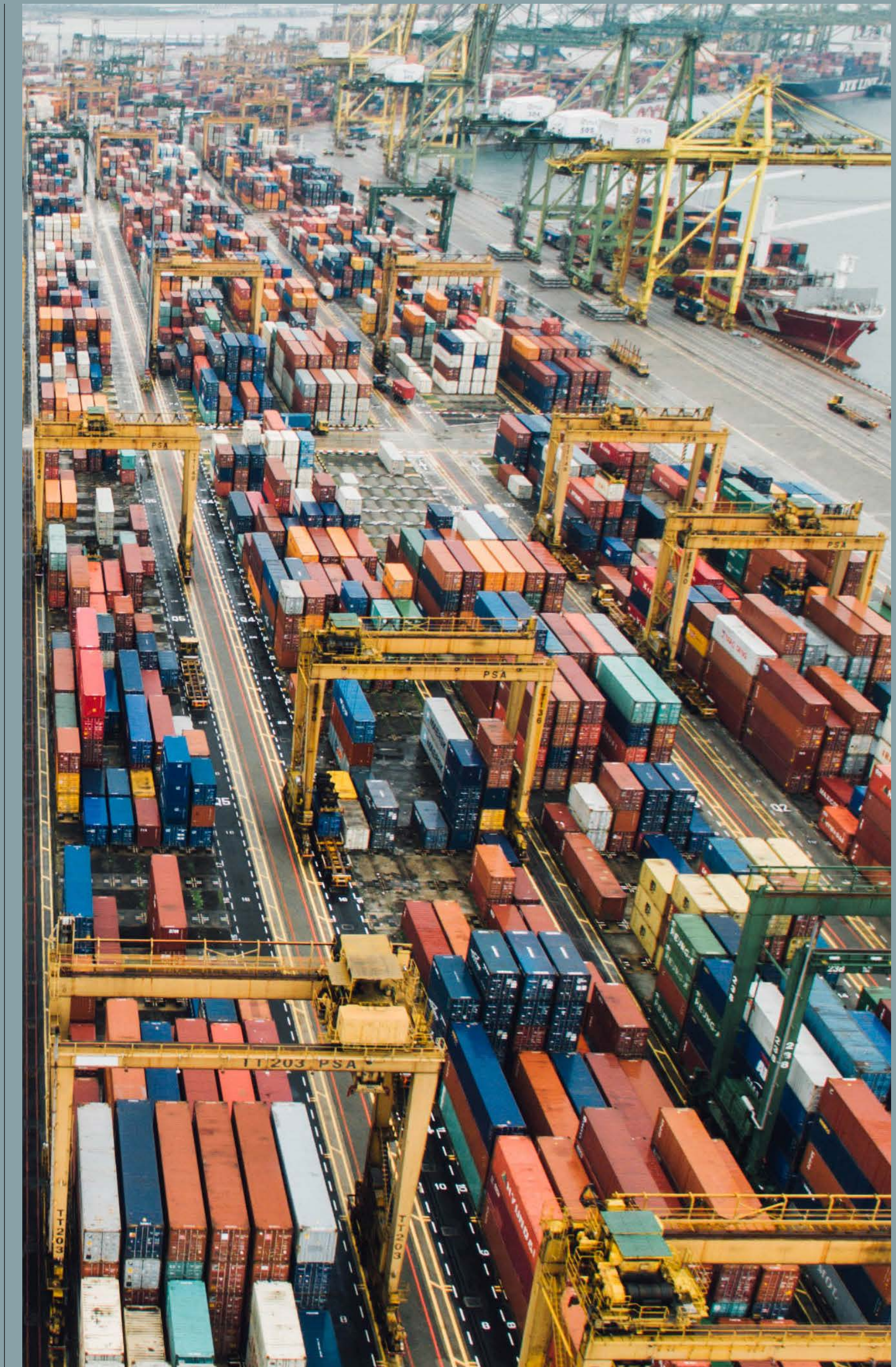
Rebecca Green

Technology Sector Lead, Asia, ERM

and

Ed Struzik

Partner, ERM



TREND 7

Enabling sustainable production and consumption



Key accelerators

- Plastic reduction initiatives create pressure for corporate action.
- Consumer interest in and demand for sustainable products increases.
- Circular economy aims to prevent further waste creation.

Despite regulation and pledges to reduce its usage, single-use plastic production rose globally by six million tons, or 4.4 percent, from 2019 to 2021.¹⁷⁶ Furthermore, plastic use in G20 countries is on course to nearly double by the middle of the century, and plastics entering the world's oceans could nearly triple by 2040 if no further action is taken.^{177, 178} Simply put, little progress has been made in tackling the plastic pollution problem – in fact, we are backsliding.

A proposed landmark United Nations (UN) agreement, the UN Plastics Treaty, aims to change this by putting a combination of voluntary and required measures in place, such as the phasing out of primary plastic polymers and strengthening waste management programs. With a legally binding agreement expected by the end of 2024, the treaty has been described by Inger Andersen, Executive Director of the UN Environment Programme, as the “most important green deal” since the Paris Agreement in 2015.¹⁷⁹

At the national government level, in January 2023, the UK announced a ban on single-use plastics including plastic plates, trays, bowls, cutlery, balloons, and certain types of polystyrene cups and food containers.¹⁸⁰

Outside of government, investors and companies face significant financial, legal, regulatory, and reputational risks because of plastic pollution. The potential cost of inaction is high, with businesses facing an estimated \$100 billion in annual financial risk if governments were to require them to cover waste management costs at industry-projected volumes and recyclability.¹⁸¹ Recognizing these costs, a group of more than 180 investors representing \$10 trillion in assets under

management signed a joint statement in May 2023, encouraging intensive users of plastic packaging to cut their use of plastics and address the financial risks associated with plastic use.¹⁸²

Corporate action – and data to track it – will be crucial to monitor plastic reduction progress, as well as for emerging disclosure requirements. Environmental disclosure platform CDP announced that nearly 7,000 companies worldwide would be able to disclose their plastic-related impacts through CDP's water questionnaire for the first time in 2023.¹⁸³

At the same time as companies face rising disclosure demands and mandates, consumers are increasingly inclined to support businesses aligned with their values. December 2023 research found that consumers globally are supportive of making the ‘green’ option their default purchase.¹⁸⁴ From a generational perspective, at least 62 percent of Gen Z (anyone born between 1997-2012) shoppers prefer to buy from sustainable brands, while 73 percent of Gen Z say they are willing to pay more for sustainable products.

Consumers also want more information on product sustainability. In a study completed by Shelton Group, an ERM Group company, 87 percent of Americans claim sustainability certifications like ENERGY STAR and USDA Organic are important to their purchasing decisions.¹⁸⁵ Consumers are also spending more time reading product labels and conducting online research to learn about the sustainability credentials of the products they are looking to purchase.¹⁸⁶ Because of these findings and increasing access to sustainability information, consumers are also increasingly wary of greenwashing within corporate sustainability commitments and claims.¹⁸⁷

Our current linear “take, make, waste” economy assumes a constant supply of natural resources to make products which are then discarded after use. The externalities caused by this model are only growing. The idea of a ‘circular economy’ has emerged in recent years to address this crisis. In a circular system, products and materials are kept in circulation through processes like maintenance, reuse, refurbishment, and recycling.

Industries that are notoriously heavy polluters, such as clothing and construction, have big potential to use circularity principles to their advantage.¹⁸⁸ Research shows that circularity in the construction sector could abate four gigatons of carbon dioxide by 2050 through the recirculation of building materials like cement, steel, aluminum, and gypsum.¹⁸⁹ In the clothing and apparel industry, global initiatives like Textiles 2030, the European Union’s Strategy for Sustainable and Circular Textiles, and national policies like those in India and Vietnam are fostering sustainable practices through requirements on repairability and recyclability, sourcing of materials, and end-of-life waste management.^{190, 191}



The corporate response

In response to stakeholder pressure to reduce waste and create more sustainable products, companies are rising to the challenge. Innovative actions are likely to involve using sustainable plastic alternatives, creating products with circularity at the foundation, and being more transparent with consumers on brand and product sustainability.

Reducing plastic use through sustainable alternatives and innovation

Although plastic reduction is a complex problem, companies have found success in limiting single-use plastics and replacing them with more sustainable options like recyclable, compostable, and reusable alternatives.

Alaska Airlines eliminated in-flight plastic cups in January 2023, making it the first U.S. airline to do so.¹⁹² On all flights, Alaska Airlines replaced plastic cup options with responsibly sourced paper cups and Boxed Water™ cartons. Plastic reduction in packaging has also been a key focus for the food and beverage industry. In August 2023, PepsiCo became the first beverage company to commit to a North American rollout of paper-based solutions to replace plastic rings and wraps for drink multipacks.¹⁹³ Other large brands such as Coca-Cola, Carlsberg, and Absolut are also beginning to test and roll out paper bottle options as a climate-friendly and easier to recycle alternative container for beverages.¹⁹⁴

Sometimes, attempts at innovation do not go as planned. Lego attempted to reduce its plastic usage and carbon emissions by incorporating recycled plastic into its toy bricks. After two years of testing, the company decided not to go forward with the initiative as making bricks from recycled material would require investing in new equipment and involve more steps, which would ultimately lead to more, not less, emissions.¹⁹⁵

In an example of successful innovation, the Israel-based company MadeRight is using fungi fermentation technology to improve the performance and sustainability of plastic and bioplastic packaging.¹⁹⁶ MadeRight turns industrial organic waste into a biomass additive through fungi fermentation that can be combined with fossil fuel-derived plastic or bioplastic to produce pellets for use in packaging manufacturing.



Driving waste reduction and emissions mitigation through product circularity

With rising stakeholder pressure to reduce waste, an increasing number of companies are embracing circularity to keep products and materials in circulation. Nike and Crocs, among other shoe companies, are creating products that are designed to be disassembled and repurposed or recycled by the company, with the aim of preventing them from ending up in landfills by using the materials to produce new items.^{197, 198} Similarly, the global payment technology company Mastercard announced in June 2023 the launch of its new card recycling program to combat the environmental impact of expired credit and debit cards.¹⁹⁹ The company will collect and shred the expired cards before sending them to recycling partner TerraCycle, where the shredded plastic will be transformed into pellets and powders that can be reused in other plastic items.

The production of materials used in green energy technologies are also incorporating circularity principles. Traditional solar panel production requires large amounts of virgin materials like copper, aluminum, plastic, and glass. To lower dependency on virgin materials, clean energy company Ørsted partnered with the technology-based solar recycling company SOLARCYCLE to eventually reuse or recycle all solar panels from its global portfolio.²⁰⁰ Recycling and reusing solar panels can contribute to a domestic supply of materials essential to the production of new panels, helping to reduce waste and exposure to potential trade disputes over the technologies.

Consumer demand drives change in companies

As consumer demand for sustainable offerings and transparency increases, companies are taking note. One study found that over 50 percent of C-level executives in the fashion and textile industry say that consumer demand is driving their brands to create sustainable products and best practices.²⁰¹ One of these best practices is developing reverse logistics processes to recapture value and decrease waste. While clothing resale platforms such as Depop, The RealReal, and ThredUp are not new, clothing brands themselves are developing their own resale markets too. The athletic apparel retailer Lululemon introduced a ‘Like New’ resale platform where customers’ gently used Lululemon items are resold at a discount. According to the company, the Like New program diverted over 127,450 pounds of clothes and accessories from landfills in 2022, its first full year.²⁰²

In response to consumer demands and greater interest in sustainability-related information, more companies are disclosing their non-financial related information such as their carbon footprint and social impact. Nearly all of the world’s 250 largest companies now report this information, up from fifteen percent in 1999.²⁰³ Some companies like American clothing retailer Everlane and India-based clothing brand Reistor are going above and beyond with transparency.^{204, 205} When purchasing an item on Everlane’s website, the company discloses the cost of materials, labor, and transport. Reistor products include the signature of the maker of the item on the attached tag.



Action recommendations

Companies looking to modify how they approach sustainable production and consumption matters to ensure they appropriately respond to the trends shaping the space should consider pursuing the following actions:

- Track emerging consumer trends research on sustainable consumption and production to develop a clear understanding of how consumer demands and interests are changing. This information can be used to guide new and existing initiatives.
- Explore opportunities to decrease plastic use throughout a product or service’s lifecycle by utilizing materials that can be reused, refurbished, recycled, or composted. Start by establishing a value chain engagement process that enables your company to access the data and information it needs to improve the sustainability of your products and services.
- Create a top-down approach to drive circularity within your company. Embedding circularity into your existing business model and strategy is just as important as designing products and services with circularity in mind.
- Integrate sustainable consumption and production-related data collection within the data systems your company already uses. Consolidation, not siloed solutions will help you better collect, manage, and analyze the data you need to improve overall performance.

“When it comes to product sustainability, do not wait for the perfect solution. You must be agile because improving performance takes time. Test your actions and refine them as you go by embedding expertise across the different business functions that inform product portfolio decision making.”

Annette Koehler

Product Sustainability & Circularity Lead, EMEA, ERM



TREND 8

Applying technology to sustainability



Key accelerators

- Breakthrough AI developments capture attention, both for potential benefits and risks.
- Emergent technologies set to bolster corporate sustainability performance.
- Government funding accelerates green technology development.

Different periods come with their own technological advancements, from the emergence of the personal computer in the 1980s to the advent of the smartphone in the late 2000s. At this moment, not just one but two technological advancements are poised to reshape society: Artificial Intelligence (AI) and green technologies.

Since the launch of ChatGPT in November 2022, society has been transfixed with AI and the potential benefits and risks it poses, while business has been captivated by AI's potential to transform the global economy. One estimate from June 2023 finds that generative AI (the AI category in which ChatGPT falls) could add almost to \$4.4 trillion to the global economy annually.²⁰⁶

There are also concerns that AI could destroy jobs. One March 2023 estimate found that AI could eliminate 300 million jobs globally.²⁰⁷ However, these fears could be overblown. An August 2023 study found that most jobs will change (e.g., in intensity, autonomy, etc.) because of AI, not become obsolete, with only 5.5 percent of roles in high-income countries at risk to AI automation.²⁰⁸

At the same time, however, worries about the potential for AI to create economic chaos abound. The U.S. Securities and Exchange Commission chairman Gary Gensler stated in May 2023 that AI could create the next financial crisis if much of the financial system were to rely on the same generative AI platforms.²⁰⁹

Because of the breakthrough potential of AI, governments are moving to regulate the emergent technology. In December 2023, the European Union agreed to its AI Act, which regulates the technology by level of risk.²¹⁰ For example, AI applications that pose

unacceptable risks (e.g., social scoring systems) are banned under the law, while AI uses that pose high safety or human rights risks will be assessed by regulators before they approve them to enter the market. Outside of Europe, Brazil is proposing a similar AI regulation based on risk categorization, while China is opting for regulation that requires tags on AI-generated content and security reviews before market entry to prevent undesirable content from going public.^{211, 212}

AI is likely to generate sustainability benefits in addition to economic growth. For example, the Allen Institute for AI used deep learning AI models to increase the resolution of satellite images and identify the world's renewable energy developments and tree coverage.²¹³ The map generated through this process will help interested stakeholders monitor renewable energy growth and forest changes that will affect global climate action. Most notably, the tool is free to the public, allowing anyone to see where renewable energy developments and tree coverage changes are occurring.

AI and other emerging technologies are also helping companies' own sustainability initiatives. With AI, sustainability-related data, which in many cases is held across different systems internally, can be merged into a single system to increase ease of access and analysis.²¹⁴ AI can also help with reporting this data by quickly identifying errors within reports and by verifying accuracy. Non-AI technologies also provide benefits. Workiva's ESG solutions, for example, enable companies to evaluate the labyrinth of sustainability reporting frameworks and standards to determine the disclosures most important to their business and to centralize

sustainability data collection and align collected data with the use purposes it is most suited for (e.g., materiality assessments).²¹⁵

Green technologies are growing rapidly, particularly as governments globally incentivize their development to meet environmental objectives. Passed in 2022, the U.S. Inflation Reduction Act (IRA) is perhaps the most notable example of government incentivization. It is already having outsized impact. An October 2023 study estimates that the IRA has led to \$282 billion in clean energy investment since it was enacted.²¹⁶ Beyond clean energy, the EU’s European Innovation Council is bringing together investors and green technology start-ups to help scale green technologies.²¹⁷ Singapore is pursuing a similar goal with its Research, Innovation, and Enterprise 2025 initiative, which aims to invest \$25 billion between 2021 and 2025 in developing and commercializing green technologies such as renewables and low carbon energy sources and circular materials.²¹⁸

Table 1: Investment for utility-scale clean energy facilities announced in IRA’s first year

Sector	Number of projects	Announced investment (USD billions)	Expected new jobs
Solar power	50	12.7	20,505
Energy storage	15	10.9	5,770
Onshore wind	11	0.2	3,673
Offshore wind	7	3	2,460
Total	83	26.8	32,408

U.S. clean energy investments announced in the first year after the IRA’s enactment.

Source: [Goldman Sachs Asset Management](#)

The corporate response

Given the transformative potential of AI and the ways governments are supporting the development of sustainability-related technologies, companies are changing how they apply technology to sustainability. In particular, companies are likely to incorporate AI into their sustainability initiatives, pursue technology-derived performance benefits, and leverage technology to support sustainability data and reporting efforts.

AI to transform how companies approach green transformation

In addition to AI's economic potential and risks, the technology is also likely to transform how companies approach environmental sustainability issues too. AI's potential applications span from energy efficiency optimization in buildings and emission reduction strategy development to sustainable material identification and climate resiliency planning.

Companies are already using AI to advance their sustainability goals. For example, Argentine e-commerce company Mercado Libre uses satellite data and AI to monitor rainforest carbon stocks and ascertain how successful rainforest conservation and reforestation initiatives are for carbon accounting purposes.²¹⁹ In an emissions tracking example, Evercomm, a Singaporean startup, is developing AI-powered smart sensor technologies for its carbon accounting platform that tracks, measures, and analyses CO₂ emissions, ultimately translating them into ISO-standard compliant carbon emission values.²²⁰

Companies must also be cognizant of AI's potential negative sustainability-related impacts too. Most prominent is AI's notoriously high energy consumption. Under a median forecast, AI could consume up to 134 Twh annually by 2027, or approximately 0.5 percent of global electricity demand.²²¹ There is also potential for negative impacts based on AI use rather than energy, for example, generative AI algorithms used for sustainability reporting purposes might have built in biases that generate errors that affect disclosure accuracy.

Companies will pursue technology-based sustainability performance benefits

As the global economy transitions to more sustainable forms of value generation, corporate demand for technological innovations that generate simultaneous sustainability benefits will grow. Companies are pursuing these innovations on their own and through partnerships.

On its own, the Nigerian waste management company Wecyclers uses a mobile-phone based platform that allows low-income households to schedule recyclable waste pickups from employees riding locally produced cargo bikes.²²² Participating households receive points per kilogram of waste they recycle, which they can swap for food and household essentials. In India, Infosys uses technology to produce positive social impact. For example, it makes government services more accessible through technologies that speed up the processing of tax refunds and align local and national tax infrastructure to simplify the tax process for taxpayers.²²³

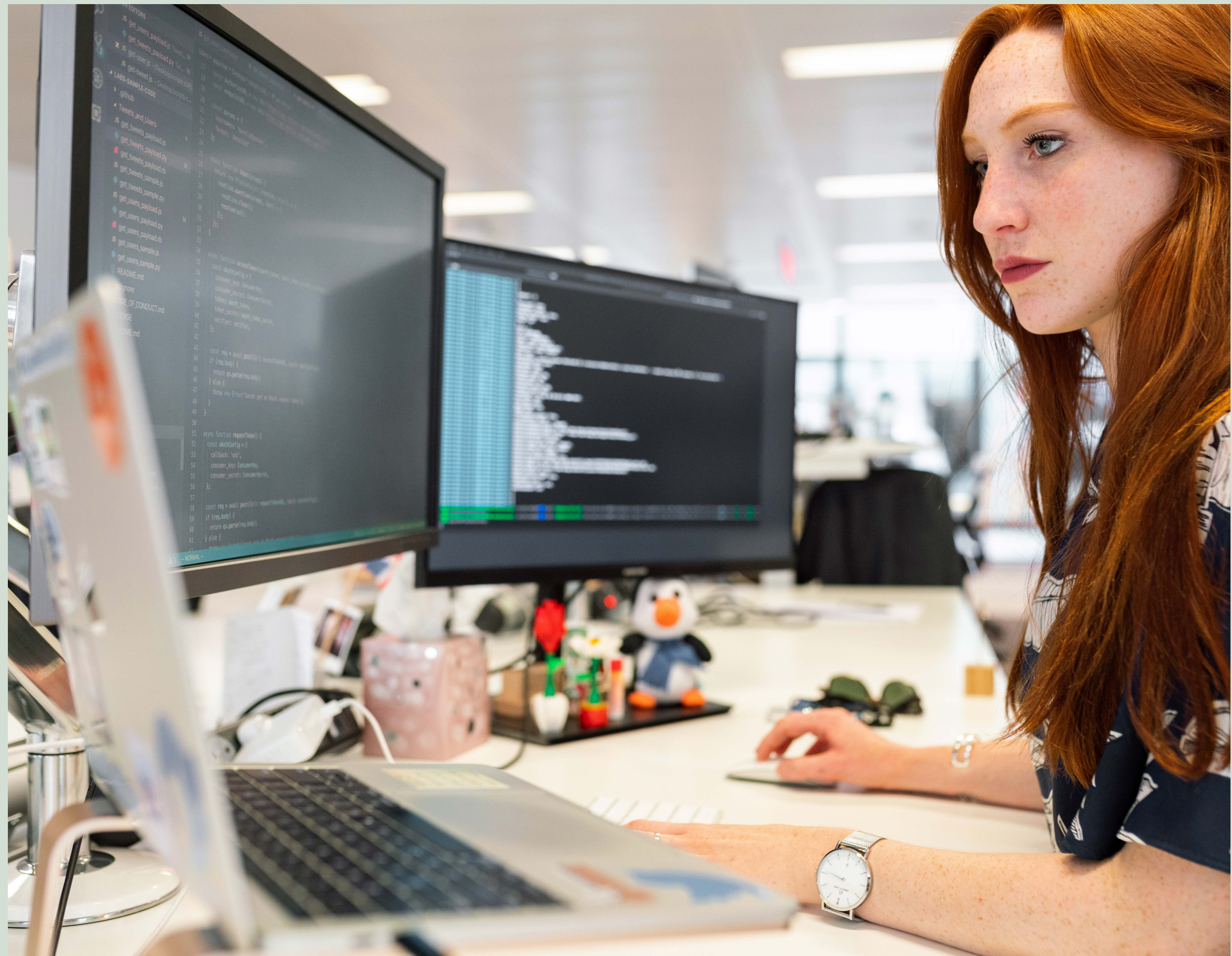
Through partnership, JetBlue is collaborating with a climate software producer to provide customers with solutions that enable them to track their flight's emissions and mitigate them by contributing money to substitute a percentage of the flight's jet fuel with Sustainable Aviation Fuel, or SAF.²²⁴ Nestlé is also leveraging the benefits of collaboration and emerging technology. In April 2023, it announced that it would pilot Airbus' Pléiades Neo satellites to monitor the success of its reforestation projects in Southern Thailand before deciding whether to expand their use globally.²²⁵

Companies to turn to technology to meet sustainability data and reporting needs

As stakeholder demands for sustainability data and reporting continue to grow, companies will use technologies to meet them. According to one September 2023 survey, 92 percent of executives across Asia-Pacific, Europe, and North America expected to increase spending on ESG data applications in 2023.²²⁶

With many companies poised to spend more on sustainability data and reporting, different technology producers are developing solutions to meet demand. Salesforce, for example, is creating tools to support sustainability reporting efforts. In 2023, the software company unveiled a number of new features for its Net Zero Cloud sustainability reporting application that do everything from suggesting disclosures aligned with reporting frameworks to generating draft answers based on a company's sustainability data.²²⁷ In a risk-focused example, S&P Global launched its Nature & Biodiversity Risk dataset in May 2023, which helps companies and investors assess nature-related impacts and dependencies within the operations of over 17,000 companies.²²⁸

Other companies like SAP are enabling sustainability reporting-related collaboration between organizations. In May 2023, the company launched its SAP Sustainability Data Exchange, which enables companies to safely share standardized sustainability data with their value chain partners to scale their collective sustainability action.²²⁹ For example, companies can share their emissions data with their customers, which provides insights that both companies can use to reduce them.



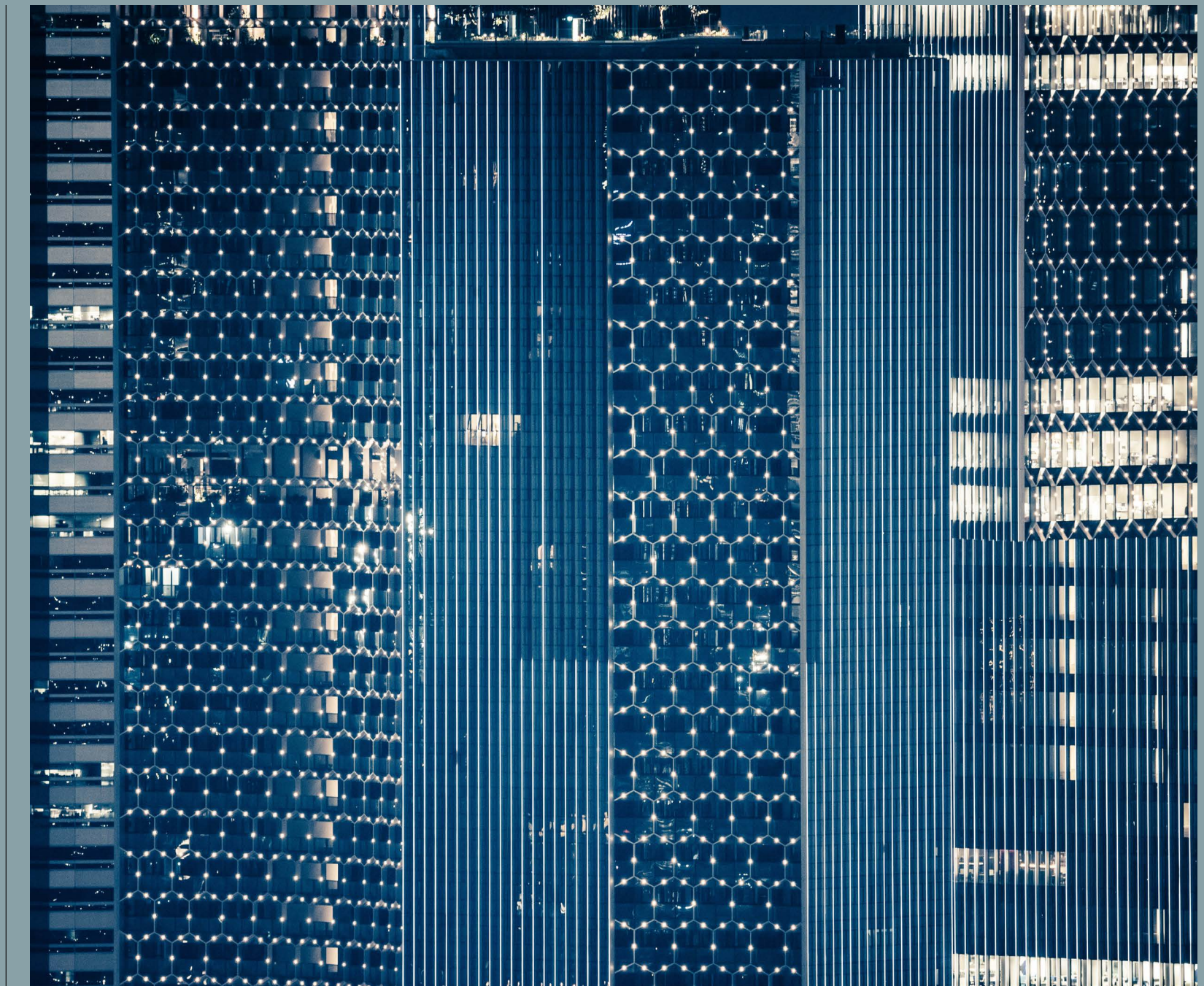
Action recommendations

Companies looking to modify how they approach technology-related sustainability matters to ensure they appropriately respond to the trends shaping the space should consider pursuing the following actions:

- When integrating AI into sustainability and wider business initiatives, identify the ethical and environmental issues the technology is likely to pose (such as its ability to replicate biases and consume significant energy) as early as possible. Then, consciously act to mitigate and design out these issues from the outset before they cause material damage.
- Evaluate emerging regulations like the UK’s [Online Safety Act](#) to better understand what sustainability-related technology issues are important to your customers, investors, suppliers, and other stakeholders and update your sustainability strategy to ensure it aligns with these expectations.
- Develop strong, centralized corporate governance systems to enable comprehensive technology-related risk management and regulatory compliance. Without central governance, siloed management is unlikely to be able to appropriately respond to rapidly evolving technological developments likely to affect all parts of an organization.
- Implement processes to ensure integrated sustainability-related data collection and management across your company. Unified data processes will provide a more complete view of the sustainability issues affecting your business, thus enabling more effective sustainability management and reporting.

“Emerging technology-related regulations like the Corporate Sustainability Reporting Directive are not just a compliance exercise for companies but an opportunity for sustainable transformation too. Because these regulations require sustainability leaders to interact with people across their companies, they can use them to accelerate internal ambition by engaging others in technology-focused sustainability action.”

Susanne Baker
Partner, ERM



TREND 9

Respecting fundamental rights



Key accelerators

- Governments focus on mandatory environmental and human rights due diligence and forced labor.
- Corporate diversity efforts face headwinds.
- Stakeholder demands for positive social impacts escalate.

In the human rights space, stakeholders are pushing companies to improve how they prevent and address abuses. Nike is one target company. Twenty unions from five Asian countries filed a complaint against Nike with the US National Contact Point for the Organisation for Economic Co-operation and Development's Due Diligence Guidance for Responsible Business Conduct for violating the guidance.²³⁰ Specifically, the unions allege that the company has failed to address numerous workplace malpractices against garment workers, including unwarranted pay cuts, unpaid wages, and gender discrimination.

Similarly, a lawsuit in Africa is pushing TotalEnergies to improve its human rights practices. Ugandans filed a lawsuit against the French super major in Paris in June 2023 seeking compensation for damages its projects caused in the East African country.²³¹ Plaintiffs alleged that deforestation caused by pipeline and oil well construction flooded their land and that these same projects interfered with their ability to access the land. Brazilian and French stakeholders are pursuing a comparable strategy, filing a lawsuit against BNP Paribas in Paris over the company's alleged contribution to deforestation in the Amazon without first conducting environmental and human rights due diligence.²³²

Investors are another group encouraging improved corporate human rights protections. In August, asset managers representing over \$1 trillion in assets called on the International Sustainability Standards Board to develop a universal human rights reporting standard for companies.²³³ Among governments, few have been more active in the human rights space than the European Union. After years of negotiations, the bloc agreed to the

Corporate Sustainability Due Diligence Directive (CSDDD) in December 2023.²³⁴ When fully implemented, the CSDDD will require companies to conduct human rights due diligence within their operations and supply chains and address discovered violations.

In the U.S., the federal government has expressed concern about forced labor. In May 2023, a bipartisan group of House members called on the Securities and Exchange Commission (SEC) to pause Shein's initial public offering until it proves its supply chains do not utilize forced labor.²³⁵ House members again called for halting the fast fashion company's IPO after it confidentially filed to do so in November 2023, with one congressman contemplating legislation to bar Shein from going public if the SEC does not.²³⁶



The diversity space is also facing its share of upheaval. At the board level, diversity efforts have faltered among Fortune 500 companies, with one study finding that more than 55 percent of boards members were white men in 2022.²³⁷ In Europe, regulators moved to ensure that banks comply with a 2014 policy mandating they establish a diversity policy.²³⁸ Despite the policy, 28 percent of banks had yet to develop one by March 2023.

Back in the U.S., corporate diversity efforts are being further tested by lawsuits, especially in the wake of the Supreme Court’s overturning of the use of affirmative action in university admissions.²³⁹ For example, the group founded by the leader of the university affirmative action challenge sued two major law firms in August 2023 for allegedly discriminating against white applicants within its paid diversity fellowships.²⁴⁰ One other notable diversity-related policy development came from Brazil where the federal government’s law requiring companies to track the racial and ethnic makeup of their employees took effect in April 2023.²⁴¹

As investors, governments, communities, and companies better understand the social and business-related imperatives for a Just Transition, the number of Just Transition-related frameworks, working groups and guidance has grown. In 2023, corporate-level guides continued to emerge, from the Impact Investing Institute’s release of its Just Transition Challenge and Criteria to the inclusion of Just Transition in the 2023 OECD Guidelines.^{242, 243} This ongoing momentum continues to drive companies to give the Just Transition closer attention.



The corporate response

The challenges companies face to improve their social and human rights performance require them to navigate a tricky mix of stakeholder and regulatory demands and politically-driven hurdles. In this unsettled environment, corporate responses are likely to involve updated integrated environmental and human rights risk management systems, proactive meaningful stakeholder engagement, staunch dedication to diversity, and expanded employee support.

Companies to proactively engage stakeholders to resolve human rights issues before they come to a head

Stakeholders are increasingly pushing companies to improve human rights practices through lawsuits, protests, and other forms of objection. In response, companies are likely to focus on stakeholder engagement as a means to resolve issues before they materially impact their business. Even the latest version of CSDDD says that companies have to carry out meaningful engagement with affected stakeholders, as one of the measures of the due diligence process.

Companies that do not proactively engage stakeholders face risks. Akira Geothermal saw the European Investment Bank (EIB) withdraw funding for a planned 140 MW geothermal plant in southwest Kenya after civil society organizations revealed it failed to appropriately engage stakeholders. The EIB's withdrawal motivated the Kenyan company to launch a formal Stakeholder Engagement Plan in September 2023, open dialogues with affected stakeholders, and incorporate feedback from those dialogues into project development.^{244, 245}

Investors are engaging human rights via the companies they invest in. Blackrock, for example, updated its approach for human rights risk engagement in March 2023, outlining how it evaluates human rights governance and the issues it covers under the human rights umbrella.²⁴⁶ Investors are also working together, for example by launching the Labour Rights Investor Network (LRIN) in November 2023.²⁴⁷ The LRIN includes more than 20 investors with over \$2 trillion in assets committed to engaging the boards and senior managers

of the companies they invest in on respecting workers' rights, including the right to Freedom of Association and Collective Bargaining.

Corporate diversity efforts quieted but still impactful

As we outlined above, corporate diversity efforts have been challenged over the past few years. These challenges, coupled with wider pushback against corporate sustainability, are leading some companies to pull back efforts in this area.

In the U.S., references to diversity initiatives on earnings calls fell to their lowest level since 2018 in 2023's third quarter (the first earnings period after the



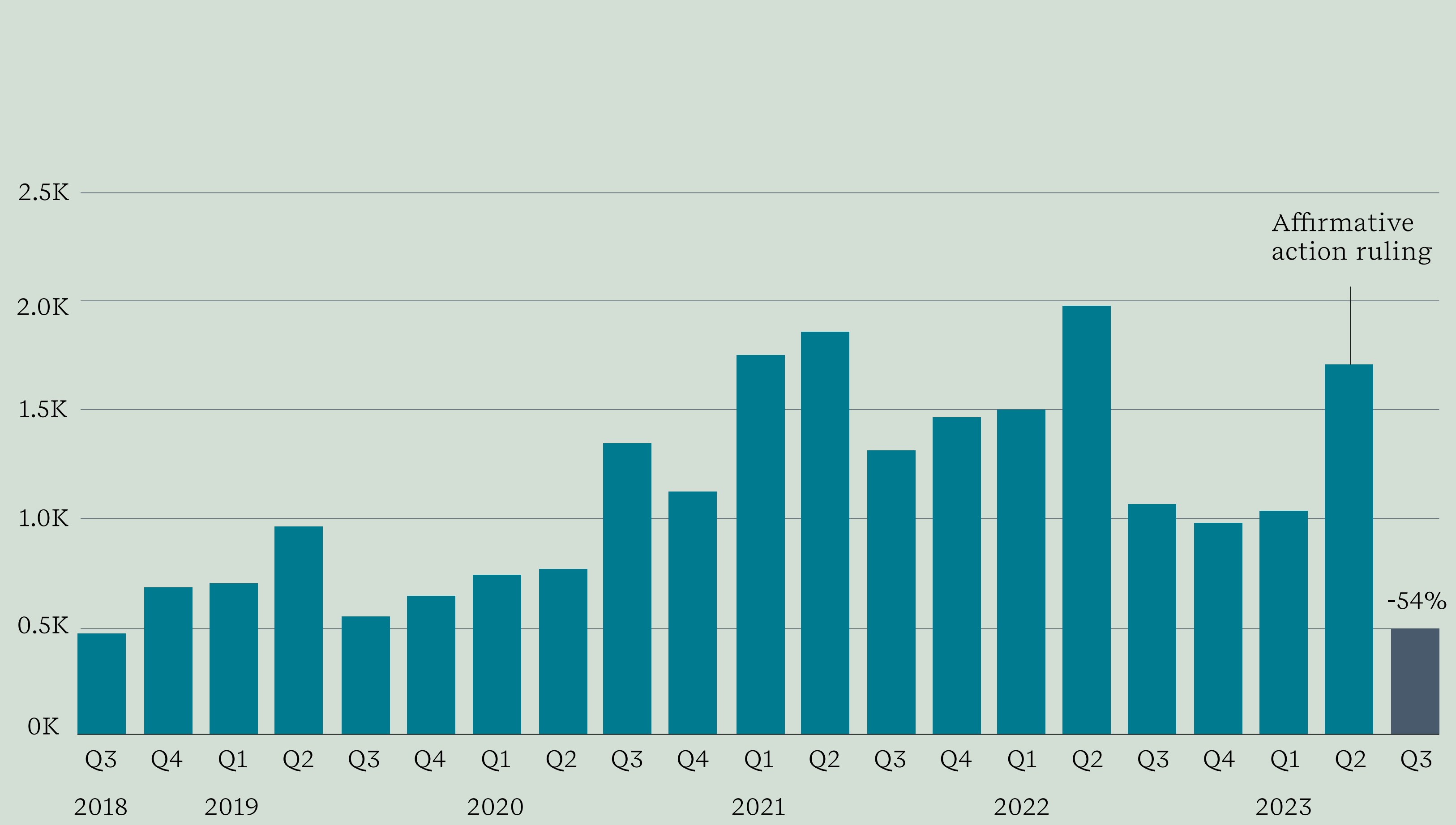
Supreme Court’s Affirmative Action ruling).²⁴⁸ Chief Diversity Officers in the U.S. are also embattled, with one analysis finding that diversity leaders experience 40 percent higher turnover compared to their human resources colleagues.²⁴⁹ These discouraging findings, however, are not the full picture: U.S. companies have actually improved their hiring of diverse candidates in recent years. In 2021 (the first year after George Floyd’s death), an astonishing 94 percent of newly created jobs at S&P 100 firms went to people of color.²⁵⁰ Despite this positive finding, it is important to note that more recent data could prove that this trend may or may not have been sustained.

Other diversity efforts are building momentum globally. Fifty-seven Brazilian companies achieved the highest possible score on the Human Rights Campaign’s LGBTQ+ Workplace Equality Index in 2023, which assess the strengthen of companies’ LGBTQIA+ policies and practices, a 52 percent increase over 2022.²⁵¹ Companies in South Africa are also progressing. As of 2022, 37 percent of large-cap South African company board members were women, 10 points higher than the global average.²⁵² Further, 42 percent of CFO roles at South African companies were held by women, compared to 24 percent globally.

Just Transition increasingly central to decarbonization plans and strategic decision-making

In 2023, all states again endorsed the ILO’s 2015 guidelines on Just Transition, and for the first time, COP28 launched a transversal Just Transition program.^{253, 254}

Figure 7: U.S. executives go quiet on diversity



Number of references to “Diversity” and “DEI” in Russell 3,000 earnings calls between Q3 2018 and Q3 2023. Source: Bloomberg

Stakeholders now widely accept that unless the energy transition is underpinned with a people-centered approach, it may exclude numerous workers and communities, increasing inequality and eroding business resilience.

Leading organizations are increasingly recognizing that embracing a Just Transition is an opportunity to protect business resilience as much as it is connected to the moral obligation to leave no-one behind. For example, by proactively addressing mounting investor pressure, companies can future-proof their business, satisfying shareholders and safeguarding share price. Through active collaboration with government plans around the Just Transition, businesses can also contribute to mitigating social inequalities and place themselves as strategic transition partners. And, by proactively managing potential transition impacts on communities and workers, companies can stand as pillars of support for affected groups, safeguarding stakeholder support, workforce satisfaction, and reputation.

Iberdrola is one company leading the way on the Just Transition. The company’s recent plan to achieve net zero emissions by 2040 is grounded in Just Transition principles, such that the net zero plan will also lead to ‘people-positive’ impacts.²⁵⁵ The company is also taking a range of other actions related to the Just Transition, from investing in skills development to collaboration with governments.²⁵⁶



Action recommendations

Companies looking to modify how they approach fundamental rights matters to ensure they appropriately respond to the trends shaping the space should consider pursuing the following actions:

- Establish a comprehensive process for human rights due diligence that complies with applicable human rights regulations in the jurisdictions in which your company operates. Or, if operating in jurisdictions without regulations in place, ensure you align your due diligence processes with jurisdictions recognized for best practice regulations.
- Develop fit for purpose social performance and human rights capacity and skills within your project development teams that enable them to proactively engage stakeholders and therefore reduce the risk that your operations will be hindered by fundamental rights issues.
- Identify the stakeholders affected by your company's operations and value chain and the factors that are likely to impact their fundamental rights before developing an engagement plan to mitigate these impacts and support their livelihoods.
- Go beyond compliance with human rights regulations and embed processes to respect fundamental rights by training all functions within your company on strategies to identify and mitigate related risks.

→ Embed Just Transition principles into the development and execution of your company's energy transition strategies by ensuring your plans are based on a people-centered approach to management and change.

“Establishing a social license to operate with your company's stakeholders is key to ensuring the success of projects that intersect with individuals and communities beyond your organization. If you are strangers to your stakeholders, any issues will be much harder to resolve than if you have a strong, established relationship with them.”

Kelly Horton

Associate Partner, ERM

“The corporate responsibility to respect human rights enters a new era with the ever-increasing link to environmental challenges and expectations. Companies will be required to align management systems and seek new partnerships to understand and address human rights harms connected to both adverse impacts on the environment and climate action.”

Désirée Abrahams

Human Rights Consulting Director, ERM

TREND 10

Navigating the evolving political landscape

Key accelerators

- Geopolitical tension between the U.S. and China disrupt businesses.
- Companies find it hard to halt business operations in Russia.
- The Israel-Hamas conflict generates business volatility.
- ESG and sustainability backlash cause uncertainty.

In 2023, China introduced a new espionage law expanding its definition of espionage and increasing the government's access to and control over corporate data.²⁵⁷ The law has proved problematic for foreign businesses. Under the new law, Chinese authorities have raided offices of western firms, including due diligence firm Mintz Group in Beijing and Bain & Company in Shanghai, confiscating phones and computers and detaining local staff members.^{258, 259}

The U.S. has taken business-related action against China as well. In October 2023, it restricted the sale of advanced semiconductors to China to limit access to geopolitically-critical technologies and computing chips.²⁶⁰ Partially in response to these U.S. restrictions, China restricted exports of two key minerals used in high-performance chips, disrupting supply chains.²⁶¹ Further, in August 2023, the US government issued an executive order prohibiting new American investments in major technology industries in China, including the development of semiconductors and other microelectronics, further escalating tensions.²⁶²

Following Russia's invasion of Ukraine, companies from around the world announced they would halt operations in the country and sell their Russian assets. However, many are finding it difficult to fully disengage due to obstacles introduced by the Russian government to discourage and penalize exiting corporations. For example, since March 2023, Russia has required all western companies seeking to leave the country to make a direct donation to the Russian state, potentially opening companies making such payments to criticism that they are funding Russia's war effort.²⁶³ Russia also instituted sanctions on corporations aiming to exit,

including discounts and taxes on sale prices, mandatory exit approvals by a government commission, and freezing assets held in Russian companies.^{264, 265}

The Israel-Hamas conflict is negatively impacting the financial outlooks of large corporations with operations in the region, particularly those in the transportation, tourism, and technology industries.²⁶⁶ Some Western firms with operations in Arab countries are also facing grassroots campaigns encouraging boycotts against them over perceived support for Israel's offensive in Gaza.²⁶⁷ Despite the conflict, many Israeli businesses are recovering, with the technology and financial industries demonstrating particular resilience.²⁶⁸

Beyond geopolitics, ESG backlash continued to be a significant domestic political issue, especially in the U.S., where Republicans in the House of Representatives created a new ESG Working Group to coordinate the party's approach to ESG initiatives and the Securities and Exchange Commission's upcoming climate disclosure rule.²⁶⁹ Regionally, 37 U.S. states introduced 165 pieces of anti-ESG legislation in 2023, with objectives ranging from limiting state engagement with financial institutions accused of "boycotting" certain industries because of their perceived opposition to oil and gas to requiring state retirement funds to invest in politically preferred industries like oil and gas and mining.²⁷⁰

However, the high cost of anti-ESG legislation may pose a risk to its success. In Texas, legislation aimed at prohibiting the use of ESG criteria in public retirement investing may cost the state pension system more than \$6 billion in lost returns over ten years.²⁷¹ In addition, there are questions about how committed politicians are to anti-ESG efforts given that many still accept campaign donations from firms they purport to target, including Blackrock, State Street, and Vanguard.²⁷²

Beyond the U.S., Europe is experiencing sustainability-related backlash too. In Denmark, for example, farmers protested following the government’s announcement that nitrogen emissions reduction measures would involve buying out and shutting down livestock farms.²⁷³ At the European Union (EU) level, lawmakers stopped a bill that would have required member states to reduce their use of chemical pesticides after significant pushback from agriculture companies and farmers.²⁷⁴



The corporate response

From geopolitical rivalry and armed conflicts to ESG and sustainability backlash, the political upheaval of the past year has challenged all aspects of companies' operations. With disruption unlikely to ease, corporate responses will likely focus on reducing geopolitical risk exposure, reconsidering public positions on political issues, and adapting decarbonization efforts to evolving climate-related geopolitics.

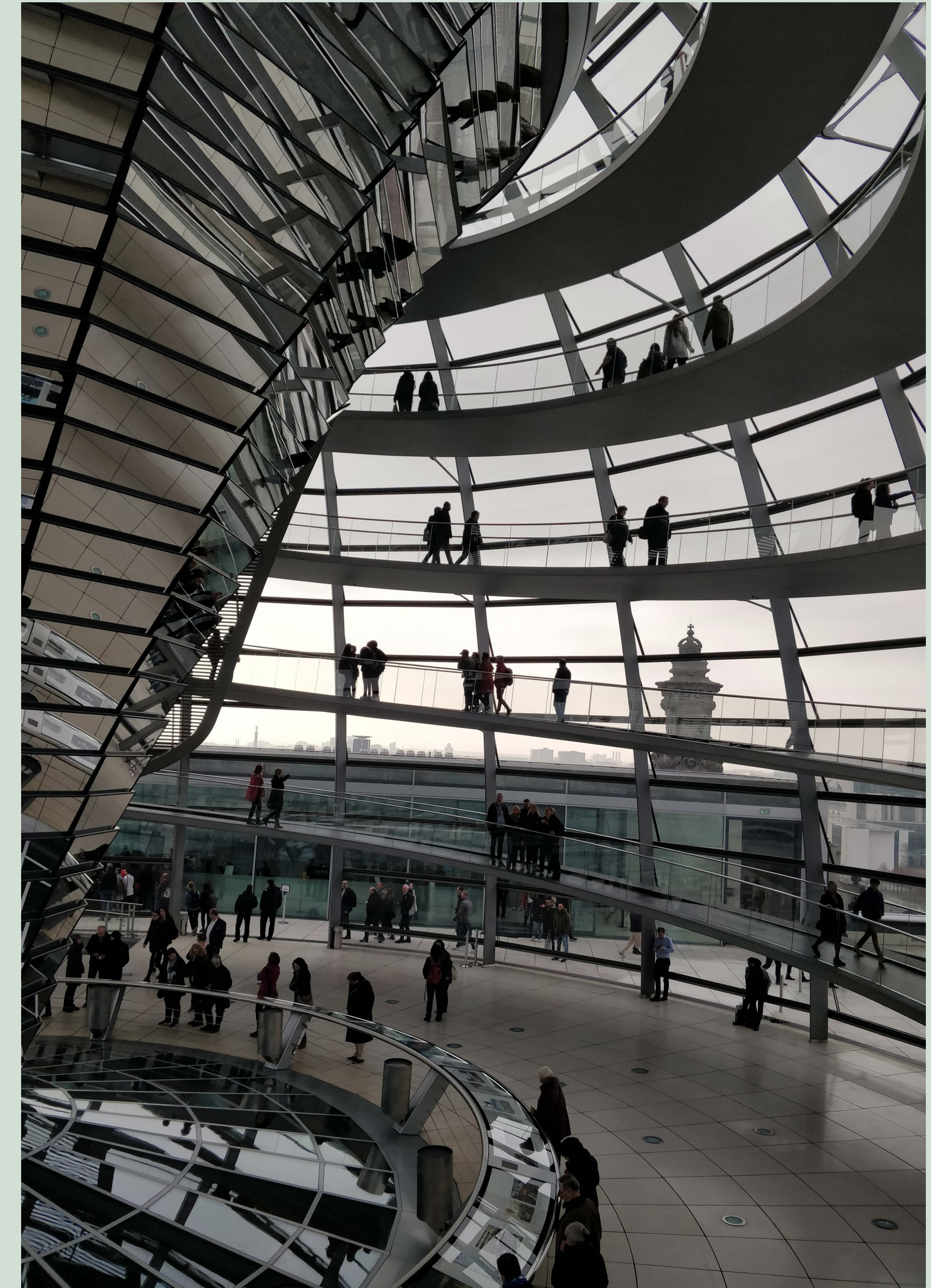
As geopolitical tensions rise, companies will act to reduce risk

After years of relatively stable international relations, recent developments have companies creating new plans to ensure their businesses thrive in an uncertain world.

Relations between China and the West will remain top of mind. Chinese companies are adapting to an ever-tightening restrictions regime imposed by the U.S. For example, the technology companies Baidu, ByteDance, Tencent, and Alibaba purchased \$5 billion of Nvidia's A800 chip for use in AI Applications before the U.S. banned their export to China in October 2023.²⁷⁵ Additionally, Baidu diversified supply, opting for Chinese-produced AI chips when it purchased them from Huawei in November 2023. On the other side of the coin, Western companies are changing how they operate in China in response to curbs on foreign businesses there. After the raids on Western companies earlier in 2023, Moody's asked its staff in Beijing and Shanghai to work from home before the rating agency downgraded China's sovereign credit rating over concerns that their offices could also be raided.²⁷⁶ Other companies, such as Canadian pension fund CDPQ, are closing offices in China over political risk.²⁷⁷

Elsewhere, companies are still navigating the effects of Russia's invasion of Ukraine. Although many firms have left Russia, others are staying put for a variety of reasons. French supermarket chain Auchan continues to operate its stores in the country so that it can meet the needs of civilians.²⁷⁸ Other companies are trying to turn circumstances relating to the Russia-Ukraine war to their advantage. For example, some banks and trading

firms are buying and selling Russian metals as they look to gain market share over companies that do not and to simply profit.²⁷⁹



Companies reconsider positioning on divisive political issues

Until recently, it's been common for many companies to comment on political issues to connect with customers, employees, and other stakeholders. In 2024, companies are reconsidering speaking out on political issues to avoid alienating stakeholders.

The deep divisiveness of the issues dominating conversations is a big factor behind corporate caution. For example, in the aftermath of Russia's invasion of Ukraine two years ago, companies worldwide issued unequivocal statements condemning Russia's actions.²⁸⁰ Similarly, many companies issued statements condemning Hamas' October 7th attack on Israel, but since then have gone largely silent given the powerful and conflicting emotions the conflict has inspired across the political spectrum.²⁸¹

When companies or subparts of them do speak out, they face rapid responses. After an Israeli McDonald's franchise began offering discounts to soldiers and security forces following October 7th, McDonalds franchises in other Middle Eastern countries quickly distanced themselves, noting their non-Israeli ownership structure.²⁸² McDonald's corporate entity also swiftly clarified that it was not supporting any governments in the conflict and that they were not consulted in the Israeli franchises' decision.²⁸³

Some companies are also going against political opinion to speak out against issues critical to their financial success. Chipmakers Nvidia, Intel, and Qualcomm have criticized U.S. semiconductor export restrictions for China

over concerns that they would hurt their business and accelerate Chinese semiconductor development.²⁸⁴ These criticisms are at odds with bipartisan support in the U.S. for more restricted economic ties with China.

Climate-related geopolitics will affect corporate decarbonization

Driven by the growing urgency for climate action and deteriorating foreign relations, climate-related geopolitics have intensified in recent years, affecting corporate decarbonization efforts.

Many countries are trying to accelerate climate action through policy. The preliminary phase of the world's first carbon border tax, the EU's Carbon Border Adjustment Mechanism (CBAM), began in October 2023.²⁸⁵ Although importers will only need to report greenhouse gas emissions in this phase, they will have to begin paying taxes on them in 2026. Because CBAM will impose GHG emissions costs on companies operating outside of the EU (and thus not under the jurisdiction of the EU Emissions Trading System), it is likely to hasten corporate decarbonization among global companies who trade in the EU.

Other geopolitical developments may slow corporate decarbonization. Tensions between the U.S. and China contributed to Ford pausing construction on a Michigan battery plant in September 2023.²⁸⁶ At issue was the carmaker's plan to produce the batteries with a Chinese company's technology, a strategy that received significant bipartisan criticism in Congress. While Ford restarted construction in November, the plant will now be significantly smaller and only produce 20 GW hours of batteries a year instead of a planned 35 GW hours.²⁸⁷



Action recommendations

Companies looking to modify how they approach political matters to ensure they appropriately respond to the trends shaping the space should consider pursuing the following actions:

- Evaluate whether to shift your company’s operations and value chains away from high geopolitical risk regions where conflict or other developments could negatively affect business success.
- Consider whether taking public positions on highly divisive political issues may alienate different groups of stakeholders and expose your company to backlashes such as boycotts that will have a material impact on the business before speaking out.
- Strengthen your company’s internal geopolitical and political knowledge to better navigate the evolving landscape, either by training teams or hiring experts to assess the implications of events or future scenarios that are likely to affect your business.

“Several years ago, many companies would not hesitate to publicly pronounce positions on societal issues partly to gain favor with certain groups of stakeholders. Today, however, companies are likely to be more cautious, limiting speaking out to avoid being seen as taking sides on particularly controversial topics and to minimize any backlash that might result from sticking their heads above the parapets.”

Daniel Litvin

Senior Advisor to ExCom, ERM



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