



elementsix™
DE BEERS GROUP

Sustainability at Element Six (E6)

**Sustainable innovation.
Integrated processes.
Responsible culture.**



Sustainability at E6



“ At Element Six we believe it is our duty to do our part to preserve an earth worth living on. Since 2020, we have made this a core component of our plan to support our emissions reduction roadmap and the shift towards more sustainable manufacturing. It’s important that our sustainability principles are built into our culture to enable us to better shape the future. ”

SIOBHÁN DUFFY

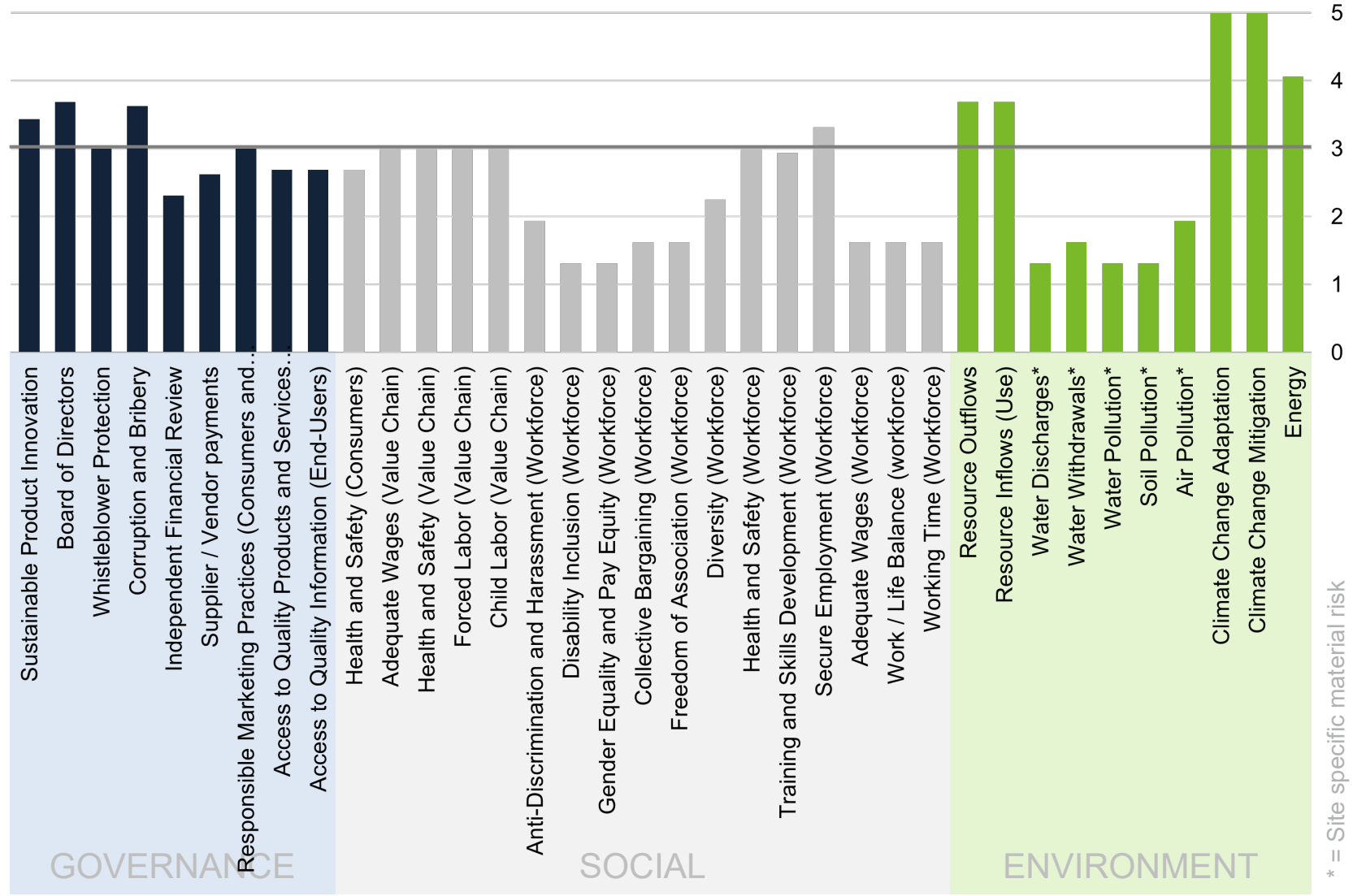
Chief Executive Officer, Element Six

Materiality – impacts, risks and opportunities

In 2025 we undertook a double materiality assessment, to identify the most important sustainability topics, both at a Group- and site-level.

The output of this report have informed our E6 Sustainability Plan.

Topics that scored three or above are deemed material to E6.



* = Site specific material risk

Our Sustainability Plan

CLIMATE

We are actively working to enhance energy efficiency and reduce carbon emissions and, in turn, improve costs across our operations.

We are committed to identifying and managing climate-related risks and opportunities that arise from the transition to a low-carbon economy. As part of our Sustainability Plan, we are contributing to efforts to limit global warming to 1.5 °C above pre-industrial levels in line with the 2015 Paris Agreement.

We routinely monitor and report our greenhouse gas emissions against annual reduction targets set at a consolidated Group level. De Beers Group have validated science-based targets with the Science Based targets initiative (SBTi), and our emissions are included within that Group level boundary.

We have developed a process for calculating carbon footprints for our products and actively seek to reduce carbon emissions by replacing fossil fuels and electricity throughout the value chain.



RESOURCES

We are working to decouple growth from resource consumption by embracing circularity and responsible waste management.

Through products that are engineered for durability and long-term performance, we support customers in reducing their own environmental footprint.

In alignment with the waste hierarchy (reduce, recover, re-use, and recycle) we aim to optimise the use and lifecycle of resources across our operations. We have an ambition to prevent all waste going to landfill globally and significantly increase the circularity of our products.

Our global sites track and set targets relating to waste and resource use which in turn help us manage costs and improve value chain resilience.

In recent years, we have implemented process improvements to reduce our use of hazardous materials and minimise our reliance on single-use resources, including plastics.



PEOPLE

We aim to promote a safe, fair and inclusive environment for everyone in our sphere of influence. Alongside protecting the health and safety of our own staff, we work with the wider value chain to uphold human and labour rights and ensure ethical business conduct.

We recognise that we have a duty to ensure sustainable livelihoods for current and future generations. As such, we invest to equip people with the skills and development opportunities to thrive.

Our suppliers are vetted as part of an onboarding process, ensuring our responsible sourcing principles are upheld throughout the value chain. We work with our suppliers to continuously identify, manage and reduce people risks.

All our main production sites are certified to ISO 9001, 45001 and 14001 as a minimum.



CULTURE

We believe that a sustainable business is a resilient business – this is how we shape the future.

Our Values and our Code of Conduct are the compass that guides all our engagements.

Our Code of Conduct encourages us “to do the right thing” and ensures we act ethically, do business with integrity, treat others with care and respect, protect our assets, data, information and interests, ensuring people can speak up confidently in an equitable, inclusive, diverse and psychologically safe environment.

Our culture empowers us to strive to be good citizens and act with a beyond zero mindset; as such we will always ensure we contribute positively to people, the environment and society however we are able.

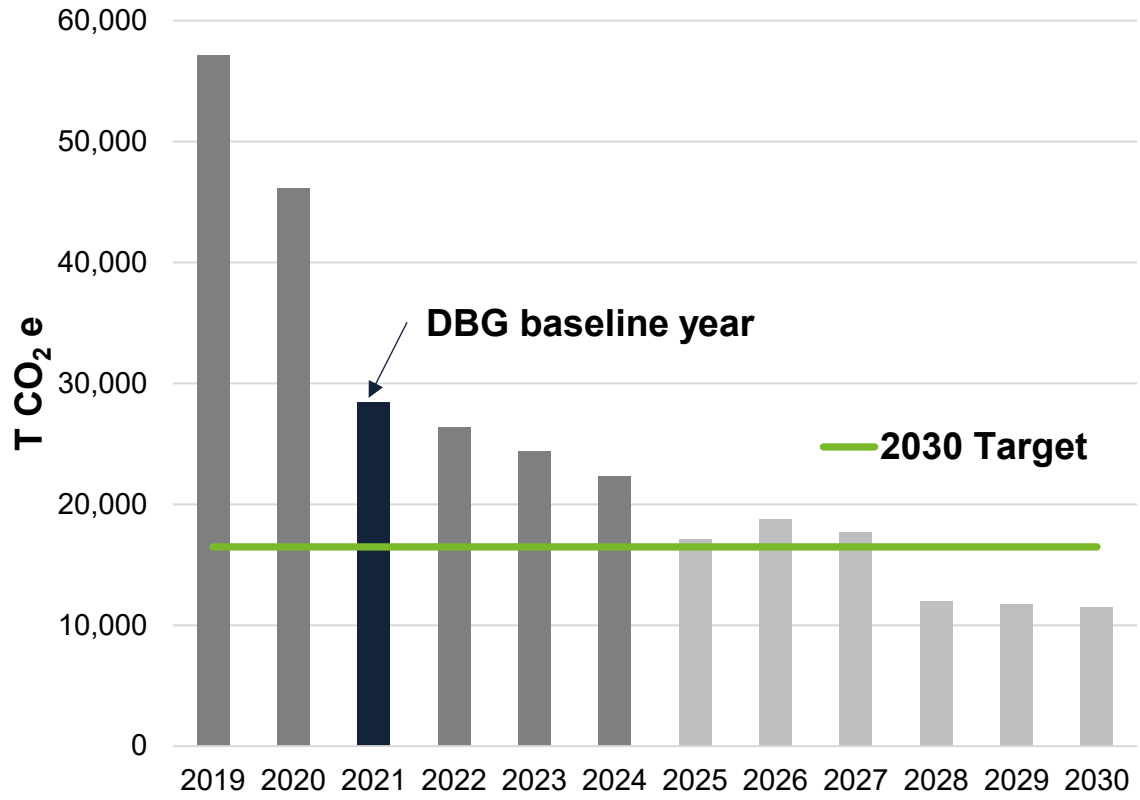


Our near-term climate transition pathway

In line with DBG, we are contributing to efforts to limit global warming to 1.5 °C above pre-industrial levels in line with the 2015 Paris Agreement.

We are currently working towards a science-based target of 42% reduction in our Scopes 1 and 2 Emissions, and a 25% reduction in our Scope 3 Emissions by 2030.

E6 Group Scope 1 and 2 greenhouse gas emissions 2030 pathway



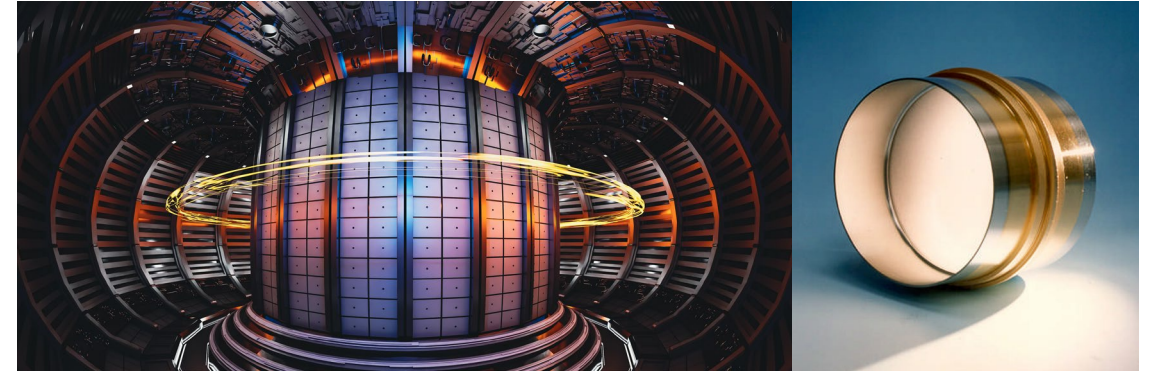
E6 innovation, driving a more sustainable future



Diamox™ onsite solution

Diamox™ Chemical vapour deposition (CVD) diamond

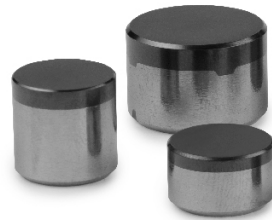
A reliable solution to tackle PFAS – the ‘forever chemicals’ – through electrochemical advanced oxidation using boron doped diamond (BDD).



Diafilm™ RF CVD diamond

For radio frequency (RF) applications, such as transmission windows for electron cyclotron heating systems in fusion reactors – promising sustainable, limitless energy supplies.

E6 innovation, driving a more sustainable future



Syndrill™ cutters

Polycrystalline diamond (PCD)

Ensure that the most efficient cutting structure is chosen for drilling challenging rock formations, including in geothermal applications.



Mastergrade™ picks

“Nano” technology cobalt binder matrix

Outperforming standard carbide road planing picks by up to 50%, providing greater operational efficiency, safety and reduced waste.

Find out more

Useful E6 links

- [Sustainability at E6](#)
- [Our Values and Responsibilities](#)
- [Environmental, Social and Governance \(ESG\) Policy](#)
- [Conflict Minerals Policy](#)
- [UK Modern Slavery Act](#)
- Integrity Next profiles:
 - [E6 Burghaun, Germany](#)
 - [E6 Global Innovation Centre \(GIC\), UK](#)
 - [E6 Gresham, USA](#)
 - [E6 Santa Clara, USA](#)
 - [E6 Shannon, Ireland](#)
 - [E6 Springs, South Africa](#)





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To learn more about E6's commitment
to sustainability, email:

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