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**How can we improve our carbon footprint tomorrow, if we don’t know what it looks like today?**

Ahead of the COP27 conference, Rania Al Mashat, Egypt’s minister for international cooperation explained that this COP is “about moving from pledges to implementation”. In the push for Net Zero, governments and industry are under more pressure to accelerate their efforts. In the manufacturing sector this is particularly challenging given the complexity of our operations.

Manufacturing cannot become sustainable overnight — it is a significant challenge to redesign parts and associated production processes to lower embodied carbon, including utilising materials and components that are less harmful to the environment, but importantly, have no adverse impact on performance and have prices that make commercial sense. As a result, businesses can be hesitant to take steps to become more sustainable, because they are unsure what will deliver the most positive impact.

From our experience, we believe that effective change can only begin when you have gained a real understanding of your carbon footprint. Measuring existing emissions, both in the business and across the supply chain, enables business owners to establish their current position, set clear targets outlining their sustainability goals and then work backwards to develop an effective plan.

Arguably, the biggest challenge our industry faces is to measure and address Scope 3 emissions — indirect emissions generated by all organisations involved in the value chain. For the engineering industry to outline accurate baseline data we must work together to build best practice for collecting and sharing our data.

Making small yet impactful changes, such as switching to renewable electricity or swapping to more energy efficient equipment, will account for a business’ direct impact on emissions. However, we cannot make further progress unless we also address our indirect impact on the planet. Reducing all Scope 3 emissions may seem like a daunting task, but if businesses across the supply chain come together to share their data and sustainability goals, we can accelerate action and reduce emissions at scale.

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**-ENDS-**

**Notes to editors**

Renishaw is a world leading supplier of measuring systems and production systems. Its products give high accuracy and precision, gathering data to provide customers and end users with traceability and confidence in what they’re making. This technology also helps customers to innovate their products and processes.

It is a global business, with over 5,000 employees located in the 36 countries where it has wholly owned subsidiary operations. The majority of R&D work takes place in the UK, with the largest manufacturing sites located in the UK, Ireland and India.

For the year ended June 2022 Renishaw recorded sales of £671.1 million of which 95% was due to exports. The company’s largest markets are China, USA, Japan and Germany.

Renishaw is guided by its purpose: Transforming Tomorrow Together. This means working with customers to make the products, create the materials, and develop the therapies that are going to be needed for the future.

Further information at [www.renishaw.com](http://www.renishaw.com/)