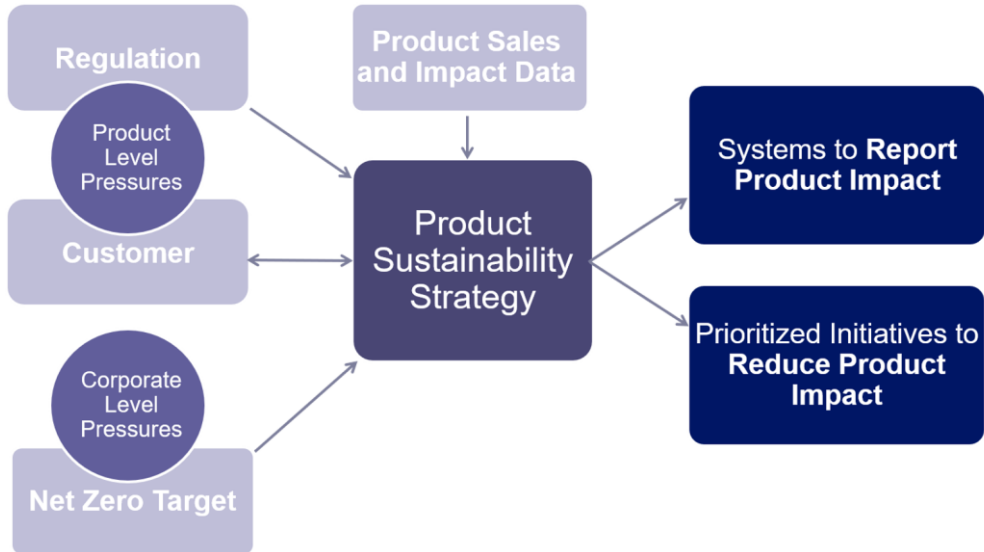


Case study: Developing a Product Decarbonisation Roadmap for a Global Industrial Manufacturer

Product Sustainability Strategy · Portfolio Assessment · Carbon Roadmapping



Challenge

The client needed to identify where product sustainability investment would have the greatest impact across a complex global product portfolio. Existing sustainability data was spread across reporting systems and business units, making it difficult to prioritise product families, technologies and lifecycle stages.

Portfolio Hotspot Analysis



Emissions were broken down by business unit, brand and product family to identify the highest-impact focus areas.

Quantified Roadmap



10 technology pathways, capable of delivering a 26% emission reduction, were identified through interviews with high impact product teams

“Use of sold products represented 95.9% of total emissions.”

– Matt Boxall, Senior Product Sustainability Engineer, Sentec

Solution

Sentec analysed lifecycle impact data, business-unit emissions, product use-phase hotspots and technology pathways to build a quantified product sustainability roadmap. The assessment identified that use of sold products represented **95.9% of total emissions** and, through conversations with product teams, built a portfolio of 10 initiatives with a combined potential reduction of **16.0 million mtCO₂e**, equivalent to **26.2% of overall emissions**.