



# Reducing the environmental impact of our medicines and vaccines

Climate change and nature loss are an urgent threat to human health. That's why we have set ambitious company targets on both climate and nature. To help achieve these targets, we are innovating to prevent and change the course of disease with products designed to be better for people with less impact on the planet.

For all newly developed or acquired medicines we are applying Sustainable Design Plans\*, which are aligned to industry-leading methodologies on product sustainability. Our Sustainable Design Plans aim to ensure environmental impact is considered at every step of the product decision-making process.

\* since the start of 2024

## Sustainable Design Plans

### 1. Assess

Undertake an environmental impact assessment.

- Ecodesign assessments, identify upfront the potential impacts of a product on carbon, freshwater, biodiversity, land and oceans.
- Life cycle assessments look into products and processes, to quantify environmental impacts and vulnerabilities throughout the duration of a product's life.

### 2. Anticipate

Develop a glidepath.

- Plan for how the carbon and nature impact will change across the phases of development of the product.
- Incorporate projected volume for the percentage of GSK's 2030 and 2045 carbon footprint targets that each product will account for.

### 3. Act

Identify projects and investments.

- See how the product fits with our wider sustainability priorities and plans already underway.
- Create product-specific plans which aim to reduce the carbon and nature impact across product life cycle over time.

# Taking action at each stage of the product life cycle to reduce environmental impacts



Product lifecycle	Our approach	Examples of action we're taking
<b>1. Product design</b>	Using our scientific expertise to include environmental considerations into the discovery and development phases.	<ul style="list-style-type: none"> <li>– Using 'green chemistry' principles, so our design processes use less energy and create less waste.</li> <li>– My Green Lab Certification for our laboratory practice.</li> </ul>
<b>2. Raw materials</b>	Increasing transparency and traceability across supply chains to build targeted action plans with suppliers.	<ul style="list-style-type: none"> <li>– Switching high-risk natural materials or ingredients to biosynthetic non-animal or plant derived substitutes.</li> <li>– Ensuring suppliers of key natural materials adhere to our Sustainable Sourcing Standards.</li> </ul>
<b>3. Manufacturing</b>	Ensuring the medicines and vaccines we produce are high quality and with a reduced environmental impact.	<ul style="list-style-type: none"> <li>– Recovery of solvents used during stages of drug synthesis and manufacturing.</li> <li>– Using enzymatic processes, to move away from traditional chemical synthesis.</li> <li>– Avoiding the leakage of Active Pharmaceutical Ingredients into the environment.</li> <li>– Reducing operational carbon emissions, waste and water use.</li> </ul>
<b>4. Packaging</b>	Reducing the environmental impact of our products through the design of devices and packaging.	<ul style="list-style-type: none"> <li>– We've developing a roadmap to redesign packs and devices for full circularity.</li> </ul>
<b>5. Distribution</b>	Factoring in the logistics that contribute the most to the environmental footprint of our products.	<ul style="list-style-type: none"> <li>– Transitioning from air freight to sea freight.</li> <li>– Ensuring container optimisation.</li> </ul>
<b>6. Patient use</b>	Designing products to reduce their climate and nature impacts while they are being used by health systems and patients.	<ul style="list-style-type: none"> <li>– Investing to reduce the carbon emissions of the propellant used in metered dose inhalers.</li> <li>– Moving from paper to digital information leaflets.</li> </ul>
<b>7. Disposal</b>	Helping to ensure that our products are disposed of responsibly, to reduce their impact on the environment.	<ul style="list-style-type: none"> <li>– Increasing the recyclability of our packaging.</li> <li>– Take back schemes for inhalers and syringes, for safe disposal of active ingredients and material recovery.</li> </ul>