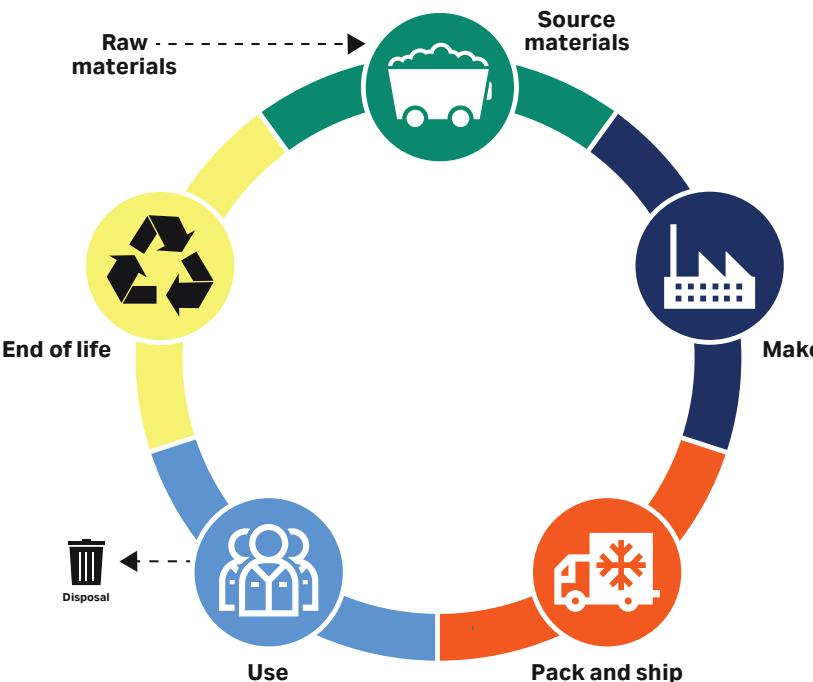


# Downstream hardware: An environmental perspective

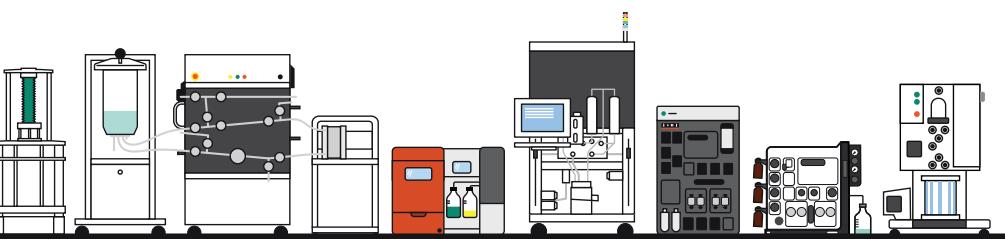


## Unleashing the power of product life cycle for maximum impact

For over 50 years, Cytiva has partnered with you to advance and accelerate therapeutics production. Now, we embark on a journey together as we reshape the biopharma value chain. We are committed to integrating design for sustainability into our new products under ecodesign principles to address the environmental impacts of our products along their life cycle. Armed with that information, we make design changes influencing the carbon impact, water usage, efficiency, etc. of our products.

We will only succeed if we can work together on those life cycle stages, where product use and end-of-life can have a critical effect on the environment. We are therefore performing a thorough evaluation of the carbon impact and where it can be reduced as well as to enhance performance of our product portfolio.

Cytiva is committed to decarbonizing our products, processes and ways of working to ensure we meet our current and future sustainability goals.



## Raw materials

Preserving resources and carbon reduction go hand-in-hand when we reduce how much material we use. Less steel and polymers in our hardware designs reduce the carbon footprint significantly. Additionally, it reduces the weight of the product which in turn reduces the transport emissions.

**50%**

**footprint reduction potential** using additive manufacturing as part of ecodesign.

**19**

**tonnes** of steel eliminated from the Axichrom™ 80-200 cm column redesigns.

**1000**

**of our suppliers** are now rated in EcoVadis, joining us on the road to sustainability.



## Distribution

Shipping our large hardware systems around the world is a huge carbon hotspot. Our supply chain has already started transitioning away from air shipments to ocean, truck or train.

We've successfully implemented alternative shipment strategies, saving over 1800 tonnes.

Finally, we're working to validate the Axichrom™ system, one of our largest pieces of equipment, against regulatory requirements to ship via ocean for additional CO<sub>2</sub>e reductions.

**Eliminated**

expanded polystyrene packaging, replacing it with recycled PE foam material.

**110**

**tonnes** CO<sub>2</sub>e reduced from incoming material due to changes in shipping guidelines to our suppliers.

**3.68M kg**

**of CO<sub>2</sub>e** estimated savings opportunity per year by shipping AxiChrom 300 columns by ocean.



## Manufacturing

Our manufacturing site in Umeå shifted to 100% renewable electricity, installed geothermal heating, prioritized energy-efficient machinery, and further reduced CO<sub>2</sub> consumption by at least 10% during their energy kaizen. During the kaizen, they signed a supplier contract for the use of 100% fossil-free district heat, which resulted in an annual CO<sub>2</sub> reduction of 88%.

**Over 17 000**  
**tonnes** CO<sub>2</sub> emissions saved in travel via remote Factory Acceptance Tests (FAT).

**EcoVadis Platinum**  
for three consecutive years.

**100%**  
fossil fuel free at Umeå Manufacturing.



## Use and end of life

In 2024, we conducted three studies to provide a more sustainable cleaning method using less volumes of cleaning solutions compared to previous methods.

Our findings indicate that by reducing pump speeds in the wash steps before and after application of the cleaning agent and introducing the reuse of the cleaning agent through recirculation for 1 h, you can reduce the total amount of solutions required over 45%!

**10 years**

of service past discontinuation for many of our hardware products.

**Minimizing**

environmental impact by increasing the life cycle assessment expertise.

**Fostering**

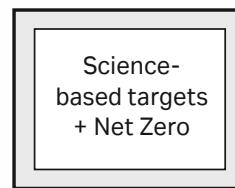
collaboration and transparency across the value chain.

Our impact to the United Nations Sustainable Development Goals



# Our commitment to sustainability

Thriving people, thriving planet, a resilient business. For Cytiva, these three aims are deeply connected. Achieving them is our ambition and our responsibility. That's why we commit to integrating respect for people and care of the environment in our decisions in ways that have a lasting impact for society, our customers, patients, and Cytiva associates.



This statement of our commitment to sustainability reflects our support of the UN Global Compact and its 10 principles on human and labor rights, environmental protection, and anti-corruption. It is echoed in relevant policies, procedures and strategic priorities across Cytiva.

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