



Protecting Our Planet— One Shipment at a Time

**THE JOURNEY TO SUSTAINABILITY IN BIOPHARMA
COLD CHAIN LOGISTICS STARTS HERE**



PELI
BIO THERMAL™

The Intersection of Circularity and Sustainability



What's at stake?

The shippers that transport health-giving and life-saving pharmaceutical products must be kept at the right temperature throughout each journey. **Lives depend on it.**

Likewise, sustainability has progressed from nice-to-have to must-have for many pharmaceutical companies driven to reduce their environmental impact.

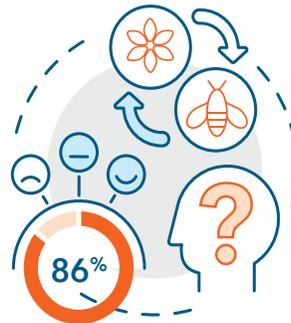
Our future depends on it.

GREEN THINKING IMPACTS COLD CHAIN

In recent years, the tide has shifted on how pharmaceutical companies view sustainability as a factor in cold chain decision-making. Many organizations now focus on how their vendors and suppliers' green initiatives impact their company's sustainability goals. Consequently, we're being asked more frequently to demonstrate that temperature controlled shippers and modes of transportation minimize negative effects on the environment.

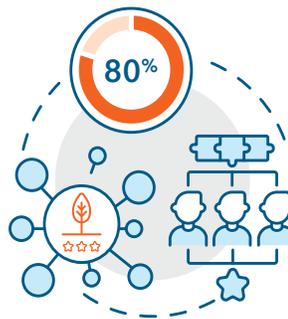
In our recent Biopharma Cold Chain Logistics Survey, 86% of respondents said they always or sometimes factor sustainability into their cold chain purchasing decisions. Likewise, 80% of respondents said advancing sustainability is very important or important for their organizations.

How frequently does sustainability factor into your cold chain purchasing decisions?



86% of respondents said they always or sometimes factor sustainability

How important is it to choose cold chain packaging that advances sustainability for your organization?



80% of respondents said advancing sustainability is very important or important

Our award-winning temperature controlled shippers and continual innovation have made us your cold chain partner from discovery to distribution. Our commitment to reusable temperature controlled shippers, rental programs, recyclable single-use components and more aligns with modern thinking on sustainability.

Meeting the Moment for Sustainability



Reduce Energy Consumption



Reduce Landfill



Reduce GHG

According to our survey, there are three overarching factors driving the pharmaceutical industry toward more sustainability business practices. Organizations see reducing energy consumption as a vital interest for everyone. They also want to reduce waste in the pharmaceutical cold chain for landfill avoidance. In addition, they recognize the urgency of reducing the threat of greenhouse gas emissions to the earth's atmosphere.

As a result, expectations are now high for recyclable cold chain shipping materials and energy-efficient shippers. Smaller, lighter cold chain shippers made from at least partially recyclable materials are in high demand. Reusable shippers—some of which can be rented—are another way carbon emissions can be significantly reduced. In fact, a reusable shipper used once a month for five years removes 72 single-use shippers from service and, inevitably, the landfill.

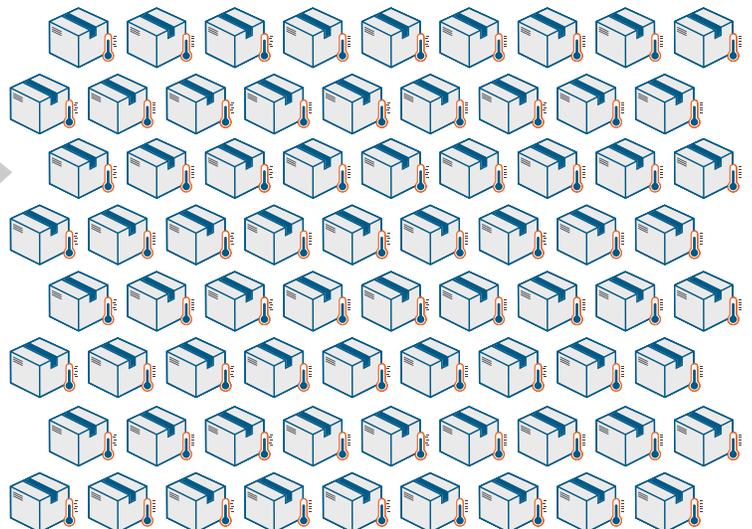


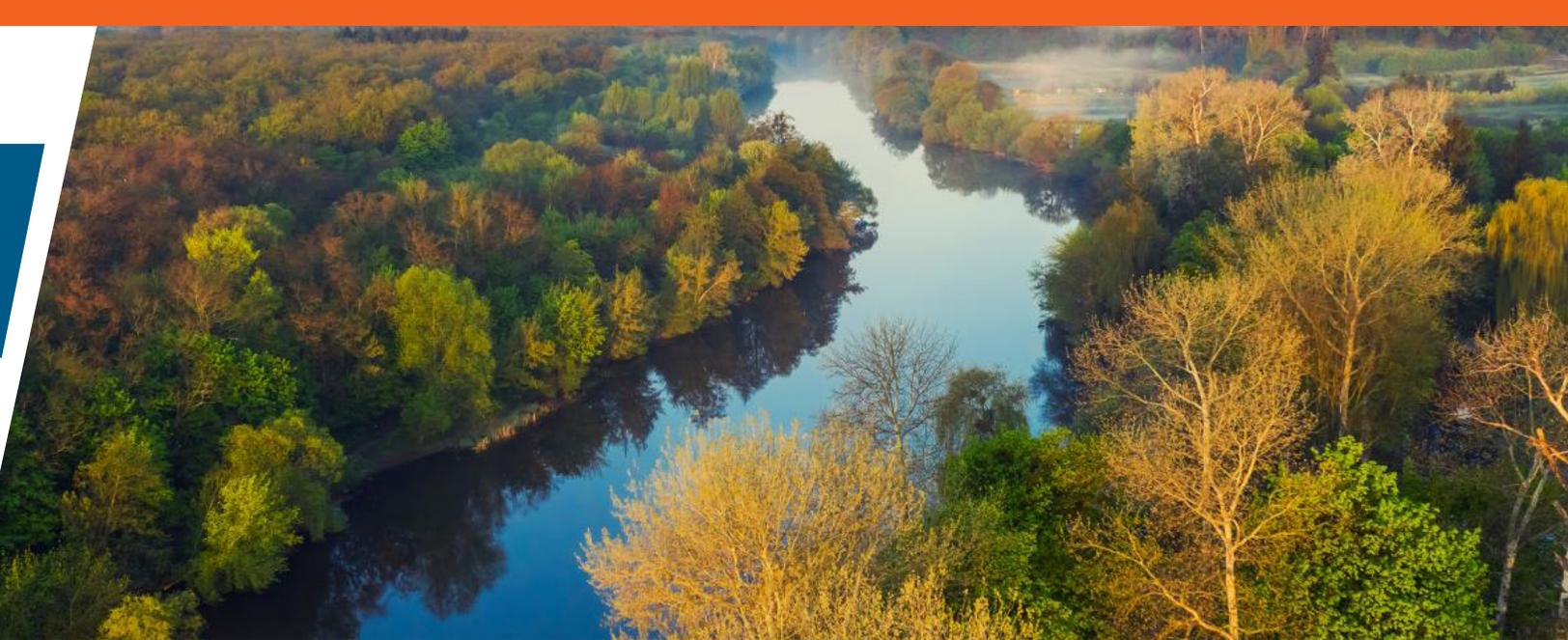
1 reusable shipper

CAN REPLACE

72 single-use shippers

OVER 5 YEARS





Cut Emissions with Reusable Shippers

There's a compelling environmental reason to turn to reusable shippers instead of single-use packaging. The average single-use approach emits 1,122 tonnes of CO₂e compared with 241 tonnes with the reusable approach.

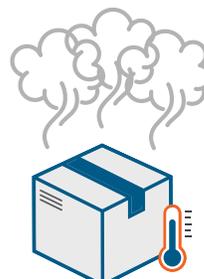
Peli BioThermal offers a wide range of reusable shippers that can be reused repeatedly. Our vast global service center network around the world refurbishes, repairs and conditions our reusable shippers so they're ready to withstand the rigors of the next journey. Our global services network stocks coolants for our reusable temperature controlled packaging.

CARBON EMISSIONS



Reusable approach

**EMITS 241
TONNES**



Single-use approach

**EMITS 1,122
TONNES**

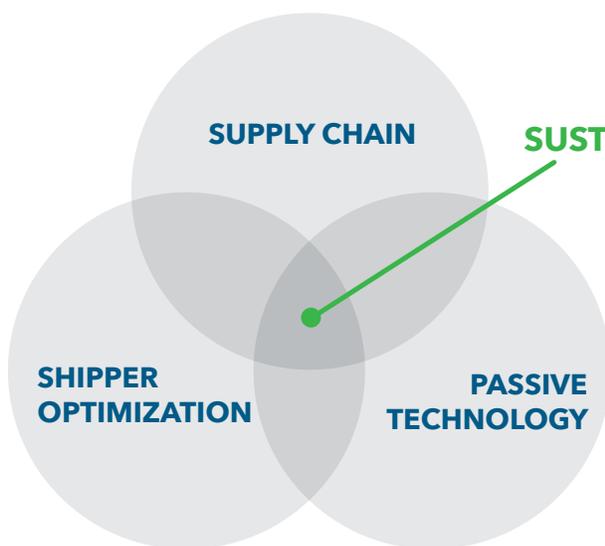
Increase Circularity and Sustainability

Single-use shippers that make one trip and head straight to the landfill are outdated. That's why more and more pharmaceutical companies are choosing to rent reusable shippers for landfill avoidance.

Peli BioThermal offers a number of bulk shipper products for rent, via our Crêdo™ on Demand and Crêdo™ on Reserve programs, which support the circularity and sustainability commitments of the global pharmaceutical and cold chain industries.

MAKING SINGLE-USE MORE CIRCULAR AND SUSTAINABLE

Sometimes, single-use shippers are simply the best option. Especially where it's geographically difficult or too costly to return to the source. That's why Peli BioThermal uses components in our single-use shippers that can be recycled or disposed of without impacting the environment. The paper and board we use to construct our single-use shippers can be bailed, collected and pulped for further use in the paper industry. Some insulation materials we use can be ground down for repurposing into new products.



SUSTAINABLE The circular approach to sustainability is taking hold across the globe. In the circular economy, packaging manufacturers create shippers that can go back into the supply chain instead of the landfill. The guiding principles of reduce, reuse, recycle are the foundational elements of circularity. By optimizing the supply chain, shipper components and passive technology, we get closer to true circularity that advances sustainability initiatives.



BEING MINDFUL IN OUR MANUFACTURING PROCESSES

Manufacturing processes consume roughly one-third of the world's energy, and the industry produces about a billion metric tons of CO₂ emissions annually. Manufacturing also generates waste that needs to be disposed of—but it doesn't have to hurt the environment. Peli BioThermal ensures that as much waste generated in our manufacturing process is also recycled. This includes the paper or board we use during manufacturing and the plastics we collect and sort that can be reused for anything from road surfaces to park benches. We also use non-toxic materials in our manufacturing process.

RETURNING SHIPPERS VIA SEA, NOT AIR

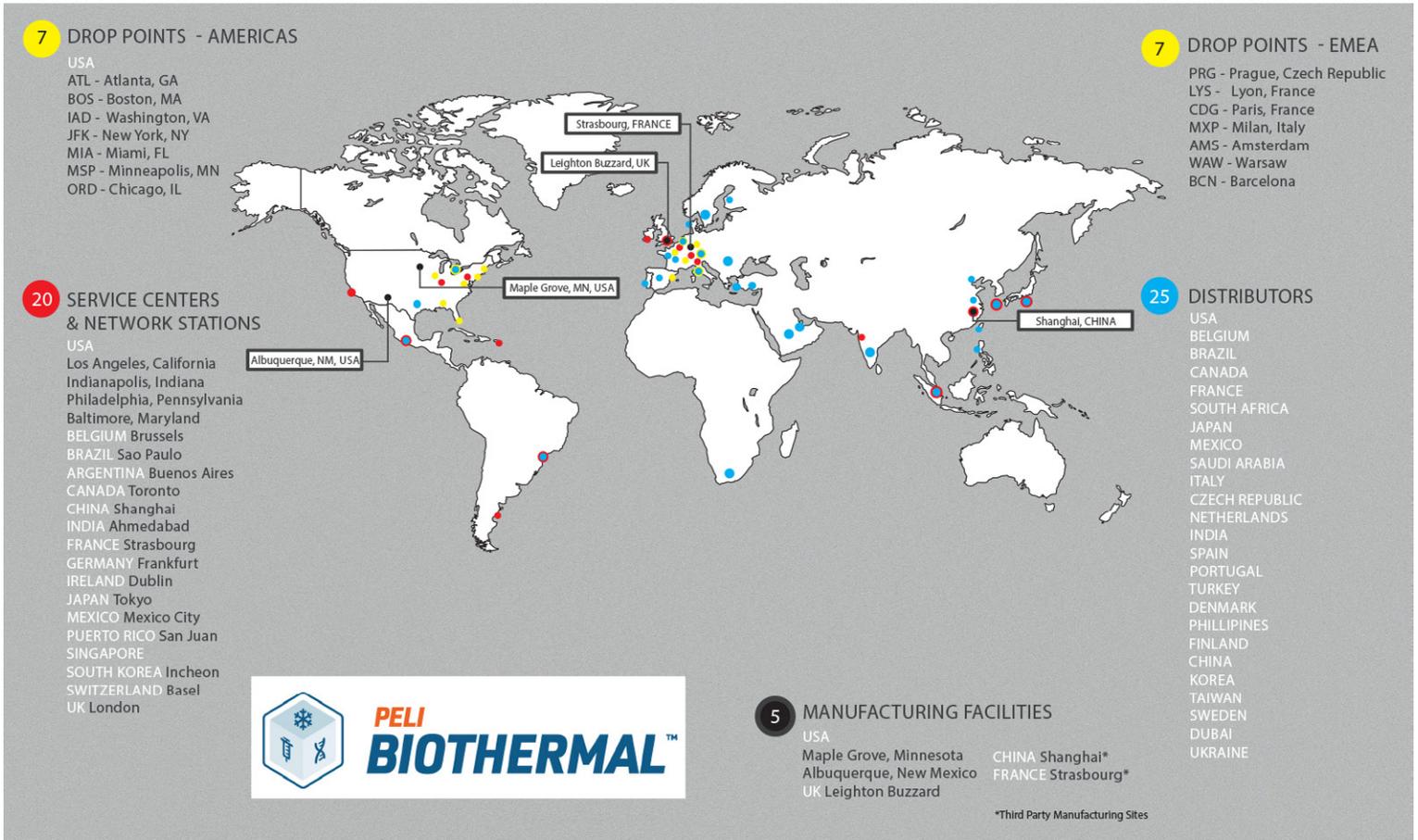
Long-haul air shipping is more CO₂ intense than other transport modalities such as sea freight. Shipping via sea generates just 2% of the CO₂ per kilometer that shipping by air generates. As much as we can, we consolidate shippers at our service centers and return them in bulk via sea freight to lower our carbon footprint.

HANDLING DISPOSAL FOR YOU

For our customers who want to hand off disposal of their used shippers, send them back to one of our two manufacturing sites and we'll handle recycling or disposal into the waste stream.

JOIN US ON THE JOURNEY TO SUSTAINABILITY

Together, we can protect our planet—one shipment at a time.



Visit pelibiothermal.com/sustainability for more information on our solutions and support from discovery to distribution.



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