

Summer of Solutions x Thermo Fisher

Support the Green Committee to reduce CO2 at the Thermo Fisher Scientific site in Bremen

How can products of Thermo Fisher be packaged more sustainably?

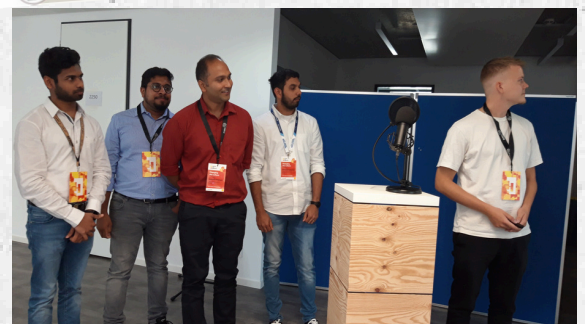
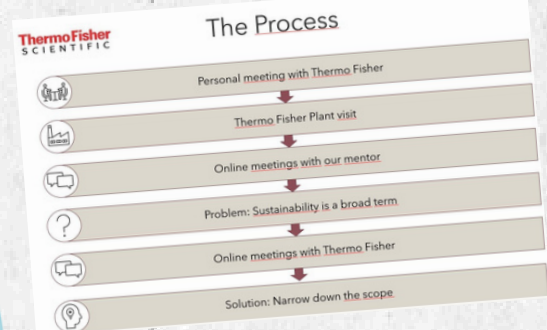


What did the initial situation look like?

Thermo Fisher is a global leader in serving the scientific community. As sustainability becomes increasingly important, the company faces rising expectations from both customers and suppliers to meet higher sustainability standards. In response, Thermo Fisher is proactively pursuing these goals. One key focus area is identifying more sustainable packaging solutions for their products. The student group was tasked with researching and evaluating potential options to support this initiative.

How did the student group approach the process of finding solutions?

To successfully address the task, the group began by visiting Thermo Fisher's production site to identify the current packaging materials in use. After assessing these materials and analyzing all relevant requirements, they researched sustainable alternatives. Finally, the group evaluated the feasibility of these options to provide Thermo Fisher with practical, actionable solutions.



What are the proposed solutions?

The group identified three more sustainable packaging alternatives: biodegradable PLA and PLA/PHBV, paper-based bubble wrap, and cellophane-coated wrap. They also estimated the emission factors associated with each option. With this information, Thermo Fisher can now assess which material best meets their requirements.

