

The project's initial development, including a working prototype or the complete codebase:

The proposed solution effectively addresses the issue of menstrual waste by implementing a process that heats, crushes, and separates the plastic and cotton found in sanitary napkins. First, the used napkins are heated, which helps break down the materials. Then, they are crushed to facilitate the separation of plastic and cotton. The plastic is collected and sent for recycling, where it can be transformed into new products, reducing the need for new plastic production. Meanwhile, the cotton is repurposed for various uses, such as making tiles or being directed to landfills in an eco-friendlier manner.

This approach significantly reduces the overall volume of menstrual waste, helping to minimize the impact on landfills and promote sustainability. By efficiently separating and repurposing these materials, the solution not only decreases waste but also contributes to a circular economy, where materials are reused rather than discarded.

What makes this solution stand out is its straightforward and effective method. The use of heat and a water-based separation process is simple yet innovative, allowing for the recycling of plastic and the reuse of cotton. This eco-friendly alternative to traditional disposal methods not only benefits the environment but also raises awareness about sustainable practices in menstrual hygiene management. Overall, this solution provides a practical way to manage menstrual waste while promoting a cleaner and greener future.

Video Representation of Implementation of technical menstrual waste management:

https://drive.google.com/drive/folders/1hjt34XJiDvMitlZ02wh4koais0zOmqXc?usp=drive_link

Photos of Implemented project:

