

SHIFT Project History At-A-Glance

Project Name Recycled Plastic for 3D Printers	Project ID Number?	Chartfield
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Project Description / Scope:

This project would involve a shredder, filament extruder, and 3D printer being integrated to form a streamlined plastic recycling system. This system would be able to fully demonstrate the recovery and reuse PETE (type #1 plastic), alongside other plastics depending on final setup and calibration for the student body.

Additions to Project Description / Scope

(Include date addition was approved by Committee):

Major Project Milestones

Stage / Phase	Description
Milestone 1: Idea Paper	
Semester & Year Proposal Submitted	Spring 2023
Proposal Author(s), Major(s), expected graduation year & Semester	Ethan LeVering, Physics, December 2025
Date Proposal Voted on By Committee & Voted Motion (Date aligns to Committee Mtg Minutes)	PDF 20230407_HEIF Committee Meeting.pdf PDF 20230421_HEIF Committee Meeting.pdf SP-2023 HEIF Committee remote vote (Res... - Sheet 2
Submission Documents	15_Recycled Plastic 3D printer
Milestone 2: Development	
Semester(s) & Year(s) Project was in Development	
Development Team Member names, majors, expected graduation year & semester	
Development Mentor Name	
Estimated Savings from this Project	

Date(s) Development Proposal Voted on By Committee (Date aligns to Committee Mtg Minutes)	
Approved for Implementation (Yes / No)	

Milestone 3: Funding	
SHIFT Funding Amount Requested in Development	\$8,000.00
SHIFT Funding Amount Approved by Committee	\$10,000.00
Match Funding Amount from other sources (State the other source)	
SHIFT Funding Addition Approved by Committee, (Include Date of Additional Funding Approval)	
Reason for SHIFT Funding Addition	
Milestone 4: Design & Permitting	
Date Project entered Design Phase	
Date Project completed Design Phase (i.e. Date Project was Permitted)	
Name of Designer	
Milestone 5: Implementation	
Date Project entered Implementation Phase	
Date Project completed Implementation Phase	
Name of Project Manager	
Milestone 6: Project Closeout	
Final Implementation Cost (including non-HEIF sources)	9869.48
Date Project Billed & Recorded in OBI	5/17/24
Milestone 7: Monitoring	
Final Annual Savings Calculated	
Name of Person who Calculated Savings	
How were savings calculated? (e.g. monitoring devices, utility bill review, etc.)	

Date Savings Metrics Calculated	
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Pictures

(Picture 1: Existing Conditions, date photo taken)



*(*Include screenshots and links to non-infrastructure projects.)*

Names of People who compiled this information:

Name	Date
Lance Wilson	6/17/26

