

HEIF Project History At A Glance

Project Name Greenhouse HVAC Retrofit	Project ID Number XHF013	Chartfield
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[Project Folder](#)

Project Description / Scope:

In 2014, the Humboldt Energy Independence Fund allocated \$60,777 to fund a retrofit of the Experimental Greenhouse located by Science D on the HSU campus, which had not been retrofitted since its original construction in the 1960s. The proposed retrofit included upgrades to the boiler system, water piping system, fans, and gas meter, will increase building use and decrease natural gas usage over a 20year lifespan.

This project was put on hold when Facilities Management identified that the scope of the project expanded to an infeasible level because the fin tubing (a part of the heating system) required a full replacement within the heating exchanger distribution, making the project exponentially more expensive. Facilities Management recommends defunding this project, although this formal step has not yet been completed by the Committee (as of 5/6/2021).

If you would like to read more in depth about this project:

[Link to Spring 2014 Project Proposal](#)

[Link to 2013- 2014 Annual Report, see page 3](#)

[Link to 2014-2015 Annual Report, see page 8](#)

Additions to Project Description / Scope (Include date addition was approved by Committee):

Major Project Milestones

Stage / Phase	Description
Milestone 1: Idea Paper	

Semester & Year Idea Paper Submitted	Fall 2013
Idea Paper Author(s), Major(s), expected graduation year & Semester	Jocelyn Gwynn
Date Idea Paper Voted on By Committee (Date aligns to Committee Mtg Minutes)	November 15, 2013
Approved for Development (Yes / No)	Yes
Milestone 2: Development	
Semester(s) & Year(s) Project was in Development	Spring 2014
Development Team Member names, majors, expected graduation year & semester	Jessica Jewett, Major N/A, Fall 2014 Leabeth Peterson
Development Mentor Name	-
Estimated Savings from this Project	Avg Annual Net Savings: <u>\$2,838</u> 20 Year Estimated Lifetime Energy Savings: <u>56,755 Therms, or 5,675,500,000 BTU</u>
Date(s) Development Proposal Voted on By Committee (Date aligns to Committee Mtg Minutes)	May 9, 2014
Approved for Implementation (Yes / No)	Yes

Milestone 3: Funding	
HEIF Funding Amount Requested in Development	\$60,766
HEIF Funding Amount Approved by Committee	\$60,777
HEIF Funding Amount Approved for design services (Included in the amount above)	
Match Funding Amount from other sources (State the other source)	0
HEIF Funding Addition Approved by Committee, (Include Date of Additional Funding Approval)	0
Total Project Funding Needed from HEIF	\$60,777
Reason for HEIF Funding Addition	
Estimate Total Budget	\$60,777
Milestone 4: Design & Permitting	
Date Project transition to PD&C	

Date Project completed Design Phase (i.e. Date Project was Permitted)	
Name of Design Manager (in house)	
Name of Outside Consultant	
Major scope element changes	
Milestone 5: Implementation	
Date Project entered Implementation Phase	
Date Project completed Implementation Phase	
Delivery Method (e.g. name of implementer)	
Name of Project Manager (in house)	
Milestone 6: Project Closeout	
Final Implementation Cost (including non-HEIF sources)	\$1,102
Date Project Billed & Recorded in OBI	
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	

Pictures



(Picture 1: Existing Conditions, date photo taken)

(Picture 2: Completed Project, date photo taken)

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

Names of People who compiled this information:

Name	Date
Theressa Lopez	11/12/2020
Theressa Lopez	3/29/2021
Andrea Alstone	5/6/2021