

HEIF Project History At A Glance

Project Name SRC FIELD HOUSE LED LIGHTS	Project ID Number XHF036	Chartfield 607033 - SE001 - D30037 - 00000 - 00000 - XHF036
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[Link to Project Folder](#)

Project Description / Scope:

The Student Rec Center Field House is a heavily used indoor field facility. It is currently lit by 20 1 MW high intensity discharge (HID) lamp fixtures that run for approximately 13 hours a day. The lamps have a rated lifespan of 15,000 hours, which represents a life of approximately 3 years. This project proposes retrofitting the field house with LED fixtures including lighting controls. This will save energy and money in several ways:

1. LED fixtures use less energy for the same light output
2. LED fixtures are not negatively impacted by switching, unlike HID lamps which require significant time to warm up and cool down, leading them to be left on for long hours on any day the field house is in use. LED fixtures could be turned off, manually or with automated controls, when not in use, saving energy during unoccupied times.
3. Maintenance will be significantly reduced due to the longer lifespan of the LED fixtures, which are rated at more than 100,000 hours.

In addition to the energy and cost savings realized by an LED retrofit the lighting quality on the field will be significantly improved over current conditions, with more even lighting levels across the field.

Additions to Project Description / Scope

(Include date addition was approved by Committee):

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

[Link to Project Report Summary](#)

[Link to Spring 2018 Project Proposal](#)

[Link 2017-2018 Annual Report, see page 7](#)

[Link to 2018-2019 Annual Report, see page 8](#)

[Link to 2020-2021 Annual Report, see page 8](#)

Major Project Milestones

Stage / Phase	Description
Milestone 1: Idea Paper	
Semester & Year Idea Paper Submitted	Spring 2018
Idea Paper Author(s), Major(s), expected graduation year & Semester	Evan Gamman ESM-Planning and Policy, Fall 2018
Date Idea Paper Voted on By Committee (Date aligns to Committee Mtg Minutes)	05/04/2018
Approved for Development (Yes / No)	Yes
Milestone 2: Development	
Semester(s) & Year(s) Project was in Development	Fall 2018-Spring 2019
Development Team Member names, majors, expected graduation year & semester	Kainalu Asam - ERE Spring 2019 Tran Huyen (Sky) Pham - ERE Spring 2019
Development Mentor Name	Andrea Alstone - Energy Planner & Analyst Facilities Management
Estimated Savings from this Project	4,400-56,700 kWh/year, \$7,000-\$15,000/year in energy and maintenance savings
Date(s) Development Proposal Voted on By Committee (Date aligns to Committee Mtg Minutes)	03/27/2019
Approved for Implementation (Yes / No)	Yes
Milestone 3: Funding	
HEIF Funding Amount Requested in Development	Option A:\$100,379 Option B:\$70,388 Option C:\$112,376
HEIF Funding Amount Approved by Committee	Option B approved \$85,000
HEIF Funding Amount Approved for design services (Included in the amount above)	\$15,000
Match Funding Amount from other sources (State the other source)	N/A
HEIF Funding Addition Approved by Committee,	

<i>(Include Date of Additional Funding Approval)</i>	
Reason for HEIF Funding Addition	
Milestone 4: Design & Permitting	
Date Project transition to PD&C	10/23/2019 (date chartfield assigned)
Date Project completed Design Phase <i>(i.e. Date Project was Permitted)</i>	
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 <i>(including non-HEIF sources)</i>	
Date Project Billed & Recorded in OBI	
Milestone 7: Monitoring	
Final Annual Savings Calculated	
Name of Person who Calculated Savings	
How were savings calculated? <i>(e.g. monitoring devices, utility bill review, etc.)</i>	
Date Savings Metrics Calculated	

Pictures

(Picture 1: Existing Conditions, date photo taken)



Figure 1: Existing Field House area looking south east (Pham 2019).



Figure 2: Field House area looking north east with available daylight (Pham 2019).



Figure 3: Field House area looking west with existing lighting fixtures (Pham 2019).

(Picture 2: Completed Project, date photo taken)

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

Names of People who compiled this information:

Name	Date
Andrea Alstone	12/18/2019
Theressa Lopez	July 13, 2021