**Funding Criteria**

**A. General Rules**

1. Students, faculty, and staff are encouraged to submit requests for funding. Student-led projects require a faculty or staff sponsor in order to have funds awarded.
2. Funding can only go to university-affiliated projects from students, faculty, staff, and departments.
3. All SSC projects must make a substantial impact on students. This may be a direct impact or an impact through education and engagement. All SSC funding is 100% from student green fees, so the projects funded by the students must benefit them.
4. SSC encourages innovation and new technologies – creative projects are encouraged to apply.
5. Unless a type of expense is specifically listed below as having restrictions, SSC can generally fund it. The items referenced below should not be taken as comprehensive list.

**B. Things SSC Can Fund, On A Case-By-Case Basis**

1. SSC can fund feasibility studies and design work; however, it must work toward ultimately addressing a sustainability need on campus.
2. SSC can fund staff positions that are related to improving campus sustainability. Strong preference will be given to proposals receiving matching funding from departments and/or plans for maintaining continuity of the position after the end of the initial grant.
3. SSC can fund outreach events with a central theme of sustainability, provided their primary audience is the general campus community.
4. SSC discourages funding requests for food and prizes but will consider proposals on a case by case basis that prove significant reasoning.
5. SSC can fund repairs and improvements to existing building systems as long as it works toward the goal of improving campus sustainability; however, a preference is shown to projects utilizing new or innovative ideas.
6. SSC can provide departments with loans for projects with a distinct payback on a case by case base. Loans will require a separate memorandum of understanding between SSC and departmental leadership pledging to repay the award in full and detailing the payback plan.

**C. Things SSC Will Not Fund:**

1. SSC will not fund projects with a primary end goal of generating revenue for non-University entities.
2. SSC will not fund personal lodging, food, beverage, and other travel expenses.
3. SSC will not fund any travel expenses.
4. SSC will not fund tuition or other forms of personal financial assistance for students beyond standard student employee wages.

**Your Step 2 funding application should include this application, the supplemental budget form, and any letters of support.**

*Please submit this completed application and any relevant supporting documentation to* *Sustainability-Committee@Illinois.edu**. The Working Group Chairs will be in contact with you regarding any questions about the application. If you have any questions about the application process, please contact the Student Sustainability Committee at* *sustainability-committee@illinois.edu.*

**General & Contact Information**

**Project Name:** Temple Hoyne Buell Hall DDC Upgrade of Room Equipment

**Total Amount Requested from SSC:** $150,000

**Project Topic Areas:** [ ]  Land & Water [ ]  Education [x]  Energy

[ ]  Transportation [ ]  Food & Waste

**Applicant Name:** Dylan Peplinskie

**Campus Affiliation (Unit/Department or RSO/Organization):** Utilities & Energy Services

**Email Address:** peplidal@illinois.edu

**Check one:**

 [ ]  This project is solely my own ***OR***

 [x]  This project is proposed on behalf of (name of student org., campus dept., etc.):

**Project Team Members**

|  |  |  |
| --- | --- | --- |
| **Name** | **Department** | **Email** |
| Dylan Peplinskie | Utilities & Energy Services | peplidal@illinois.edu |
| David Hardin | Utilities & Energy Services | dwhardin@illniois.edu |
| Justin Brooks | Utilities & Energy Services | jdb@illinois.edu |
| Harold Gross | Utilities & Energy Services | hagross@illinois.edu |
| William Shafer | Utilities & Energy Services | wshafer@illinois.edu |

**Student-Led Projects (Mandatory):**

Name of Faculty or Staff Project Advisor:
Advisor’s Email Address:

**Financial Contact *(Must be a full-time University of Illinois staff member)***

Contact Name: Anthony Spurlock

Unit/Department: Utilities & Energy Services

Email Address: spurlock@uillinois.edu

**Project Information**

*Please review the proposal materials and online content carefully. It is highly recommended you visit a working group meeting sometime during the proposal submission process.*

**Please provide a brief background of the project, its goals, and the desired outcomes:**

*You may copy and paste your Step 1 application answer if nothing has changed.*

Due to failed equipment controllers, the room level air supply equipment is not operating efficiently which is causing increased energy costs and reducing occupant comfort. These controller failures are often not noticed as other equipment is able to mask the issue by excessively cooling or heating the air supplied to a space. This causes excess heating to occur year-round which greatly increases building utility usage, and sometimes results in offices and classrooms being too hot or too cold depending on the time of year. This project will replace all the controllers in the building from pneumatic to digital to ensure the equipment is controlling properly, to reduce the excess energy use. Newer equipment controls allow for finer control of air supply units and heating valves which will further reduce energy use, and allows for remote monitoring which will notify Facilities & Services of equipment or controller failure.

Our project would replace all 98 pneumatic controllers with new Siemens DXR controllers and thermostats. We will also make necessary piping changes to the perimeter heating coils on the classrooms that are served by AHU-2 to fix a long-standing issue that caused excess steam usage throughout the year.

We aim to have this project jointly funded between various groups for a total project cost of $600,000, with $150,000 being supplied by the student sustainability committee. We expect this project to have a payback of roughly 5 years.

**Where will the project be located? Are special permissions required for this project site?**

*If special permission is required for this location, please explain and submit any relevant letters of support with the application.*

This project will take place throughout most office and class spaces throughout the building. There are no spaces in the building which require special permission to access, however work will need to be scheduled around classroom and office occupancy. The facility manager for this building has been contacted to raise awareness of this project and determine any specific requirements that will need to be respected while this work is performed.

**Other than the project team, who will have a stake in the project? Please list other individuals, groups, or departments affiliated directly or indirectly by the project. This includes any entity providing funding (immediate, future, ongoing, matching, in-kind, etc.) and any entities that benefit from this project.**

*Please attach letters of commitment or support at the end of the application.*

Operations, Maintenance and Alterations will have a stake in the project as this group own, operates, and maintains the equipment. The completion of this project will allow for easier troubleshooting on new issues and equipment failures and will result in a lower operational cost of building HVAC systems.

**How will this project involve and/or benefit students?**

*This includes both direct and indirect impact.*

Students will be directly benefitted through increased indoor air quality in the building. Many of the large drafting studios in the building do not have direct control over the radiant heating in these spaces, which causes both hot and cold conditions. This project will alleviate this issue which will result in more comfortable spaces.

Indirect benefits include reduced annual cost of building utilities which will allow for more funding for projects to improve infrastructure in other buildings on campus. As less money is spent on building utilities more funding is available to upgrade existing HVAC systems both in Temple Hoyne Buell Hall and in other buildings on campus.

**How will you bring awareness and publicize the project on campus? In addition to SSC, where will information about this project be reported?**

There are no plans to publicize this project on campus other than to communicate with the building facilitators and occupants. Reporting on this project will be done internally within F&S to ensure the project remains on time and on budget. However, we are open to suggestions for promoting the project.

# Financial Information

*In addition to the below questions, please submit the supplemental budget spreadsheet available on the Student Sustainability Committee* [*website*](http://ssc.sustainability.illinois.edu/?page_id=2087)*. Submission of both documents by the submission deadline is required for consideration of your project.*

**Have you applied for funding from SSC before? If so, for what project?**

No, the funding applications for the Wohlers Hall HVAC Controls Upgrade and the Temple Hoyne Buell Hall DDC Upgrade were the first ones submitted to the SSC.

**If this project is implemented, will you require any ongoing funding required? What is the strategy for supporting the project in order to cover replacement, operation, or renewal costs?***Please note that SSC provides funding on a case by case basis annually and should not be considered as an ongoing source of funding.*

Ongoing funding for maintaining and operating the equipment will be provided by the Utilities & Energy Services and Operations, Maintenance and Alterations groups. Currently existing equipment is maintained, operated, and replaced by funding from F&S through these two groups, and will remain as such after this project is completed. We anticipate a reduction in operation and maintenance costs to the existing equipment once the project is completed.

No additional funding through the SSC will be required after completion of the project.

**Please include any other obtained sources of funding. Have you applied for funding elsewhere?**

*Please attach any relevant letters of support as needed in a separate document.*

Total project cost: $600,000

Funding sources:

$150,000 – Utilities & Energy Services

$150,000 – Deferred Maintenance (not yet committed)

$150,000 – Student Sustainability Committee (pending)

$150,000 – Revolving Loan Fund for Occupancy Sensor Installation

# Environmental, Economic, and Awareness Impacts

**How will the project improve environmental sustainability at the Urbana-Champaign campus? If applicable, how does this project fit within any of the** [**Illinois Climate Action Plan**](https://icap.sustainability.illinois.edu/) **(iCAP) goals?**

Implementing energy conservation measures is significant in moving towards a green campus and meeting our 2050 carbon neutrality goal.

**How will you monitor and evaluate the project’s progress and environmental outcomes? What short-term and long-term environmental impacts do you expect?**

*Some examples include carbon emissions, water conservation, green behavior, and reduced landfill waste.*

The environmental outcomes will be monitored through the building utility data after the completion of the project. We expect to see the following reductions to Temple Hoyne Buell Hall’s energy usage:

Steam 40%

Electrical 10%

**What are your specific outreach goals? How will this project inspire change at UIUC?**

**If applicable, how does this project impact environmental injustice or social injustice?**