**AFMA and Revolving Loan Fund Project Selection Minutes**

**December 9, 2014,**

**Facilities & Services Conference Room 128**

Board Members in attendance:

Allan Stratman

Lucas Frye

Matthew Tomaszewski

Lyndon Goodly

Edward Slazinik

Scott Grubczak

Mitch Dickey

Amy Lui

Others Present:

Kent Reifsteck – Director, Utilities and Services

Doris Reeser – Architect, Facilities &Services, Manages Deferred Maintenance

Morgan Johnston – Associate Director of Sustainability, Facilities & Services

Daren Evens – Engineer, Utilities and Energy Services - Presenter

Kelly Edwards- Administrative Support, Utilities and Energy Services

Micah Kenfield – Student Sustainable Committee Program Advisor

* Brief summary of Revolving loan Fund Agreement provided.
* **Project # 1 Lighting upgrades – Bevier Hall, Dairy Cattle Research, Dixon Springs**
* Bevier estimated 5-7 year payback to switch from CFLS to LEDs.
* Dairy Cattle Research, Dixon Springs Agricultural estimated 2 year payback.
* Funding request $73,000
* Incentive to reduce coal
* Each owner responsible if payback not realized. Need to determine if same consequences apply to auxillary buildings.
* Motion – Yes (8)
* **Project #2 Biomass Boiler – Energy Farm Green House**
* Estimated $130,000 payback over 10 years
* Doesn’t reduce coal or increase fund size
* Savings in use of propane
* IL Clean Energy Community Foundation interested in contributing, but funding previously provided by them for other projects not initiated and money returned on several occasions.
* iSee responsible for risks.
* Concerns
* Maintenance responsibility
* Field to Fire Labor (load the hopper to feed boiler)
* Unknown costs fully determined, Engineering working through details of design.
* Motion - Table
* Review in spring meeting when more details may be available and/or possibly identify other funding sources.
* **Project #3 - HVAC Controls upgrade – Illini Union – North & South Buildings (self- supporting unit)**
* Estimated 4 years payback
* Controls upgrade
* HVAC upgrade previously performed on north bldg. completed in 2014- VAV renovation, this project would complement that project by adding controls to the air handlers that serve those VAV boxes, as well as upgrade all the controls in the south building.
* Energy incentives
* Improve the energy performance of controls that are outdated and no longer supported and failing.
* Energy savings from:
* Demand ventilation control and scheduling
* There is a project to remodel the kitchen area right now. Project currently to address negative building air pressure issues. This work would be coordinated with the kitchen remodel which is part of the project coordination criteria.
* Short payback estimated 4 years or less based on similar projects on campus
* The payback amount is based on the historical energy saving’s, there can be an upfront agreement in the MOU on what the anticipated payback terms will be.
* Funding request $580,000
* Motion – yes (8)
* **Project #4 – Lighting Upgrade – Spurlock Museum**
* Funding request $48,000
* Estimated 3 years payback
* Upgrade incandescent lighting to LED lighting. LED currently not required by standards.
* The light will go in three areas: three permanent galleries, entry gallery, temporary gallery
* Zahn learning center
* Lobby
* Public restrooms
* Energy Incentives: Hallways
* Lighting more efficient and more conducive to the preservation of the museum displays
* LED lighting lasts approximately 40 x longer than incandescent lighting, through this there will be reduced maintenance efforts
* Motion – yes (8)
* **Project #5 – Retrocommissioning – Activities and Recreations Center (ARC) and Campus Recreation Center (CRCE) (Self-supporting units)**
* Funding request $750,000
* There was a SEDAC grant that did a preliminary energy audit and they had some recommendations that aline with the in-house retrocommissioning.
* Internal work forces would be used.
* When working with any of the auxiliaries it is required that the funding is separate. All work would be funded from the unit or from the revolving loan fund which they would repay. If they were to receive a grant it would reduce their funding commitment or go towards more work in that facility.
* Estimated 2 & 4 years payback
* The utility cost for these two buildings combined is approximately $2 million a year.
* Historical utility savings from Retrocommissioning has averaged 27%. There is a high amount of use in both Campus Rec Center East and ARC, not anticipating on getting 27% because of the extended hours of service in these buildings.
* In-house retrocommissioning work is done in parallel with composite crew. They fix things as they find them.
* Timing and splitting the budget between the two is considered and about one third of costs would go to CRCE and two thirds to the ARC. One will be done right after the other.
* Energy incentive:
* Improve temperature control systems and system components
* Motion – yes (8)
* Doris provided an approved 2007 AFMA project list to everyone present :
* Some of the projects are single projects, some are much more comprehensive.
* Review before spring meeting to get an idea of the kinds of things that AFMFA has funded through the years.
* These are projects that are funded. Majority are completed or in progress.
* Since 2007 students pay $300 per semester that generates about $20 million a year.
* These are the next set of projects that will be selected in the spring.