**RELF Working Group**

**Meeting Minutes**

**Wednesday April 21st, 2010 3:00-4:00 UC 224**

**Members Present:** Robin Saha, Alex Zimmerman, Nick Bowman, Erica Bloom, Amanda Summers,

Patrick Rhea

**Members Not Present:** Jake Armstrong, Emily Schembra, Len Broberg

**Visitors:** Alyssa Komac, Marc Oto from BEAM group

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| **BEAM group presented proposal**  |
| BEAM members presented the similarities and differences between two live time energy monitoring systems: Lucid (in the initial proposal) and Noveda * Because Lucid seemed expensive, the group looked at another company to compare costs and features.
* Both serve similar functions. The main differences is Noveda costs slightly less and the layout of the system appears different.
* Lucid has been around longer than Noveda. It’s used at Harvard and Oberlin.
* Lucid does not have as quick of a turnover, works in 1-3 hour segments, while Neveda is updated by the minute.
* Noveda Features:

-Offers 3 modules: Electricity, Steam and Natural Gas -Shows cost per square foot, CO2 compared to energy use, acres of trees/energy-Can purchase more applications to show water use and renewable energy useNoveda Costs: -$4,000 in hardware costs per dorm-$2,500 subscription fee per year per building. This includes system maintenance, data storage, updated software included. -3,000 for a kiosk per dorm. But could install the T.V ourselves which would eliminate this cost. The total cost for Noveda would be about $19,000 but this figure needs to be looked at closer. The RELF committee tallied the costs themselves. (*This may not be the exact figure*)* BEAM group sees the benefits to each system but likes the Lucid because it seems very user friendly for students.
* BEAM talked about the importance of this system as part of behavior change campaign on campus.

RELF committee discussion: * The group discussed the two systems. Some liked that Noveda shows more data, others like that Lucid seemed easier to understand.
* We could invest in this system for 3 years then revaluate. Everyone seemed in agreement with three years.
* We would not want to purchase the $3,000 kiosk. We could purchase a monitor ourselves.
* One potential problem is that all electrical savings are from behavior change. How would we incorporate this system into behavior changes on campus? It doesn’t matter which system we chose as much as it matters how we use the system.
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| **Discussion on Prius Effect from UM FLAT proposal** |
| Erica spoke with Derek about his proposal and presented it to the group. * The FLAT wants to post daily activity on their website. Already has the garage and main house monitored, this second house is the missing link.
* The systems will all be separate, but can combine data.
* UM FLAT wants to have a measure of accountability for its residents. As a sustainable living learning house Derek believes everyone's energy consumption should be monitored who is living in the house.
* UM FLAT is a resource and model for other projects. BEAM project consulted Derek when working on their project.
* The plan is to continue public open houses to show energy use for all three buildings.
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| **Genuine Draft Proposal/Operation Laundry discussion**  |
| Discussed the Genuine Draft proposal addendum * The group submitted information about a non-reset type AC hour meter (Intermatic FWZ53-120/50U).
* Alex also mentioned having a light logger in the laundry rooms to log the time the lights are left on and will forward information about the costs to the Committee.  Robin will provide the RELF with a modified budget that includes two AC hour meters and two light loggers.

Operation Clean Laundry* Robin has not received any additional information that was requested from the student who submitted “Operation Clean Laundry” proposal, but spoke with him about the information that is needed.   Robin will update the RELF Committee when he receives additional information.
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| **Next Meeting:** |
| **Wednesday April 28th at 3:00 pm** We will make final decisions at this meeting. Robin will send out an agenda ahead of time.  |