



SUSTAINABILITY REPORT

Macalester College Center of Religious and Spiritual Life

Laura Humes, Gordy Moore, George Giannos, and Sarah Birkholz
Sustainability and the Campus 2013



SUSTAINABILITY REPORT
Macalester College Center of Religious and Spiritual Life

CONTENTS

I. Executive Summary 3

II. Introduction 4

III. Prior & Current Efforts 5

IV. Energy 6

- Top Issues
- Recommended Actions

V. Sustainable Materials Sourcing 12

- Top Issues
- Recommended Actions

VI. Integrating Sustainability Statements into Programming 15

- Top Issues
- Recommended Actions

VII. Landscaping 17

- Top Issues
- Recommended Actions

II. Conclusion 19

IX. Appendix 20

SUSTAINABILITY REPORT

Macalester College Center of Religious and Spiritual Life

I. Executive Summary

The Center of Religious and Spiritual Life at Macalester (CRSL) is a key leader in building community on campus and in the Macalester-Groveland neighborhood at large. Therefore, it can serve as a role model for integrating sustainability into its day-to-day operations. In this report, we have identified several key focus areas for increasing sustainability in the CRSL, as outlined in the table below.

Focus Area	Key Issues	Recommended Actions
Energy	<ul style="list-style-type: none"> ● lighting system ● lights ● HVAC system 	<ul style="list-style-type: none"> ● Install occupancy detectors ● Replace current bulbs with LED bulbs ● Replace HVAC system, if possible; otherwise update it
Sustainable Materials Sourcing	<ul style="list-style-type: none"> ● Lack of procurement guidelines ● Non-locally sourced materials 	<ul style="list-style-type: none"> ● Consult the Sustainable Procurement draft document and establish purchasing guidelines ● Consider a forming a cooperative to purchase supplies in bulk ● Investigate alternative sources for materials ● Prioritize local, natural, organic, and fairly traded when purchasing supplies
Landscaping	<ul style="list-style-type: none"> ● Non-native species ● Runoff and flooding issues ● Impervious surfaces 	<ul style="list-style-type: none"> ● Consult the Macalester Landscaping Master Plan for future renovations ● Use native plants with deep roots ● Add compost to the soil ● Reduce exposed soil and impervious surfaces ● Consult Grounds for information about acquiring native plants
Integrating Sustainability Statements into Programming	<ul style="list-style-type: none"> ● Lack of sustainability emphasis in current programming 	<ul style="list-style-type: none"> ● Consult UNESCO faith-based sustainability statements document ● Integrate sustainability into programming (model other religious organizations) ● Create a flyer about sustainability/stewardship and faith to distribute to students

II. Introduction

The Center for Religious and Spiritual Life and Weyerhaeuser Memorial Chapel was built in 1969 through a gift from the F. T. Weyerhaeuser family. The lower level is technically the CRSL and the upper level is the Weyerhaeuser Memorial Chapel. The chapel serves as a worship space and hosts lectures, art and music events and other community functions. The chapel is served by Protestant, Jewish, and Catholic chaplains. The chaplain's offices, a mosque, and the CRSL offices are located on the lower level as well as a program space to support the vibrant religious and spiritual life offerings.

The building hosts 8 religious student groups on campus who meet there regularly and also hosts many worship services and larger speaking events. The CRLS works to make the space inclusive to all staff and users of the building. One method of fostering this is community feel is through their cookie baking that occurs downstairs in the CRSL. One setback of the building in the sense of building community is that it is not a handicap accessible space.

The mission statement of the CRSL and Chapel is stated as follows: “The mission of the Center for Religious and Spiritual Life is to recognize and affirm the diversity of religious and cultural experience at Macalester College. This includes nurturing students' exploration of their religious tradition, helping express values by engaging in local and global issues with the aim of repairing the world and by participating in the educational life of the college by promoting critical study, spiritual conversation and faith exploration.”

III. Sustainability at the CRSL: Prior and Current Efforts

The CRSL and Weyerhaeuser Memorial Chapel have not been renovated since 1969, except for downstairs in the CRSL, and consequently the building could use many renovations to its structure. There has not been an energy audit done for the CRSL and Weyerhaeuser Memorial Chapel. The complex also does not have any specific plans in place to address sustainability.

The building has many lighting fixtures throughout the complex but the staff attempts to limit the usage of the vast number of lights in the building as well as maximizing the usage of sunlight during the day in order to not have to use the lights. The building does not have motion sensors or light timers on their light switches. The landscaping surrounding the complex is “in dire need of some help” according to department coordinator Patricia Lydon. The sink in the kitchen does not have an aerator in it, but the sinks in the bathroom do.

The CRSL and Chapel use real plates, silverware and cups when having lunch and dinner events. And they have their own dishwasher downstairs in the kitchen. Compost bins are also placed around the space during these events. When it is necessary to use paper utensils, the building only uses items that are compostable. There are no sustainability requirements for people using or renting out the building for events.

The majority of staff travel to and from work by riding the bus, walking to campus, or driving a car. The staff have easily accessible information about alternative methods of transportation to and from campus. There are no bike racks surrounding the building

and the staff is interested in adding a bike rack so that they may commute by bike to work. When sizeable events occur in the building, transportation for large groups of people will often be provided by the CRSL and Chapel.

The majority of waste is food waste from large events and group gatherings at the CRSL and Chapel. The building does compost and recycle and it is working very well for the building so far. The majority of supplies purchased for the building include basic office and kitchen supplies. They also use some supplies for worship such as candles, bread, wine, worship aids, etc. There is a sustainability criteria for purchasing kitchen supplies but there is not for purchasing any other products for the building. The majority of kitchen supplies are purchased from local grocery stores or CobornsDelivers service.

IV. Energy

Top Issues

The Chapel building is fairly large, and relatively old. Energy use is, without a doubt, the area in which the Chapel has the most room for improvement, simply due to the shortcomings of their aging building. Since it has not been renovated since it was built, there are several facets of energy consumption that could be greatly improved: the lighting system, the actual lights themselves, and the Heating, Ventilation and Air Conditioning system (HVAC).

The CRSL is a space which is open to the entire campus and the surrounding community. The building is open for about 12 hours every weekday, and for varied

hours on the weekends. Because of this, the flow of people through the space throughout the day is quite unpredictable and changes day to day. Currently, the lights in the main room of the CRSL in the basement of the Chapel are all left on all day. Various lights and fans, such as in the bathrooms, offices, and kitchen, are all turned on by individuals by switch. This leads to a considerable amount of wasted electricity and money.

The second energy-associated sustainability issue is also connected to the lights – it's the actual bulbs themselves. When we shadowed Ryan Verhulst, the professional from Minnesota Energy Smart, as he performed an energy audit on the building, he showed us that many of the light fixtures are inefficient, outdated, or both. This includes almost all of the overhead lights in the offices, bathrooms, and kitchen in the basement, the lights in the stairwells, and even the lights in the chapel.

The third sustainability issue in the category of energy is the current Heating, Ventilation and Air Conditioning system (HVAC). It is very old, and has become not only inefficient but also wasteful. During their meeting, the CRSL staff mentioned quite a few issues with parts of the building being too warm, while others were too cold, and other similar problems. The current HVAC system is outdated to the point of being wasteful, and needs to be replaced.

Recommended Actions

As previously stated, the CRSL acts as an open space for the campus community, with many people flowing throughout the space in the course of the day; therefore, predicting which rooms require light at which points of the day is impossible. Their

current lighting system is to simply leave all common room lights on whenever the building is open. As for the bathrooms and kitchen, people must turn those lights on themselves. In order to reduce energy usage and ultimately save money, it is not only possible, but also fairly easy to install occupancy detectors in all the rooms. Occupancy detectors use motion detection technology to determine whether or not a space is occupied, and will then automatically turn the lights – and fans, if applicable – on and off. One relatively inexpensive model that is compatible with many types of lights is the Leviton 180 Degree PIR/Incandescent/CFL/LED Occupancy Detector, which can be purchased online from Home Depot at \$19.97 per unit. These sensors detect motion and automatically turn on, as well as measure ambient light levels to determine when to turn on. These lights would be especially useful in bathrooms, the kitchen, and other rooms that are used on a non-regular and unpredictable basis.

Not only should the lighting system, but also the current lights, should be updated. Switching to LED or fluorescent lights will drastically reduce the electricity usage of the CRSL. When we walked along on the energy audit, we saw that the CRSL's lighting system contains many outdated light fixtures that are due for an energy-saving upgrade. The main basement area contains many halogen and incandescent bulbs, which can be replaced with compact fluorescent bulbs. This will result in a 52-watt savings per fixture. The cost of \$30-40 per bulb (minus a \$5 rebate), combined with a savings of \$20-30 per bulb per year would result in each bulb nearly paying for itself within the year. In the basement kitchen, offices, and bathrooms, the large T-12 incandescent fixtures can be replaced with electronic ballast T-8 fixtures for a relatively quick

payback as well. The incandescent lights lighting the stairs up to the Chapel can be changed to LED lights linked to a motion sensor. While this switch would be slightly more expensive (would have a longer payback), we think this is an important switch due to the fact that the stair lights at current usage are on 24/7, creating a significant energy output.

The lighting in the Chapel itself is also quite energy-intensive by nature, owing to the fact that the flood lights must illuminate the entire space in an appealing and welcoming way. There are, however, simple switches that can be made to decrease the energy impact of the Chapel lighting. The overhead bulbs in the Chapel are a combination of halogens and incandescents. As with the basement, it would be very cost effective to switch these bulbs to LEDs and use occupancy sensors so that they're only on when needed. LED bulbs use significantly less wattage and have the secondary advantage of being dimmable, so they would not detract from the overall ambience. According to calculations by MN Energy Smart, each incandescent fixture changed to hold an LED bulb would save 216 watts per year, which amounts to a savings of \$9 per year. With a lifespan nine times longer than traditional incandescent bulbs, LED fixtures are well worth the cost.

Installing occupancy sensors on lights and updating light fixtures will result in a significant decrease in energy usage for lighting at the CRSL. Even more exciting, these changes will pay for themselves in a relatively short timeframe. MN Energy Smart has a wealth of resources for organizations looking to update their lighting fixtures, and we highly recommend exploring these options in order to save both energy and money at

the CRSL.

In addition to the lighting system and lights, the HVAC system is also a prominent sustainability issue. Unfortunately, when we did our walk-through of the Chapel and CRSL, we did not have the proper keys, and so were unable to get in to look at the actual HVAC system. But, the system is very old; it is quite possibly even the original. Energy Star recommends that any system 10 years of age or older should be evaluated by a professional contractor and updated or replaced as needed. The system definitely does at least need updates, if not complete replacement, because it has become quite inefficient. In their meeting, the CRSL mentioned many problems with many rooms being very unequal in temperature.

If replacing the entire HVAC system is not a viable option, there are several courses of action to pursue that would at least help combat the current wastefulness and inefficiencies. First, the air filter needs to be changed regularly. If it isn't, debris can build up and force the system to work harder to achieve the same level of airflow. Secondly, a yearly equipment tune-up would be very effective for catching small issues before they turn into major problems. It would greatly improve the efficiency of the system, and keep it that way for longer. Part of that yearly tune-up would be making sure that the heating and cooling ducts are properly sealed, something the CRSL staff suspects has not been done. Keeping these ducts properly sealed eliminates waste. A final update to the HVAC system would be to install a programmable thermostat, because the building does not need to be at the same temperature all day. When it is known that the Chapel will be unoccupied, like overnight, it does not need to at the same

temperature that it would need to be during a church service, for example.

Air conditioning is a major issue; due to an expensive piano and organ, the chapel must be kept very cool in the summer. This is quite costly, because of the large windows. Additionally, since the system serves the building as a whole, and not in sections, the staff says that it causes the basement to feel like a freezer. Updates to the HVAC system may help with this issue, but we recommend that Facilities Management look further into this issue. This specific issue may be partially mitigated if all of the upstairs windows were outfitted with curtains; currently, there are only shades on the south facing windows. There are a few windows with cracked sealant which are scheduled to be replaced this summer. That would be an excellent time to start a dialogue with Facilities about improving the sustainability of the building, starting with those windows.

The lower entrance directly into the CRSL also has a problem associated with the HVAC system. Both entryways have two sets of doors, one wood and the other wood and glass. The CRSL staff does not like to leave both sets of doors closed, as it detracts significantly from the welcoming atmosphere they try to project at all times. But if one set of doors is left open, when the other set is opened, depending on the season, large gusts of either cold or hot air will rush into the CRSL. This can place a real strain on the HVAC system, as it constantly must readjust to new temperatures. A solution to this problem would be to replace both sets of doors with insulated double paned glass doors. This would allow both sets of doors to stay closed, while maintaining an inviting atmosphere.

Replacing, or at minimum updating the HVAC system would go a long way in solving the host of sustainability issues associated with it. The system is advanced in years and needs attention badly. Its problems are prominent enough that all staff members have noticed them. Fixing these problems would save the CRSL energy and money.

V. Sustainable Materials Sourcing

Top Issues

Currently, the CRSL does not have a concrete plan for sourcing their materials sustainably. While the Sustainability Office at Macalester does have a draft of a Sustainable Purchasing and Consumption Guide available, it is only a rough guide, created to help departments start their own plans. Purchasing and sourcing of materials is not a huge aspect of the CRSL's footprint, but they still play a role. There are many different facets within the category of sustainably sourced materials. For example, there are food supplies that the CRSL purchases, not only for their weekly cookie baking, but also for other special religious events, meals, and holidays. Other non-food purchasable products include items like candles for services and events, as well as soap for hand- and dishwashing. Changes within the purchasing and sourcing of materials would be an easy way for the CRSL to improve their sustainability without having to campaign Facilities to allow it.

Research Improvements

The CRSL currently sources all of its office/paper products from Macalester, so we will continue to look into this as a possible area of improvement. Paper and office products are not a major source of waste, and everything that can currently be composted and recycled is being composted and recycled. Waste is not a large issue, but opportunities for the CRSL to source church materials sustainably still exist. The CRSL currently purchases their communion/church wine in bulk from Big Top on University Avenue. Finding what kind of local wine (if any) that is available at Big Top would necessitate a visit, and as they purchase the wine in bulk, the CRSL could potentially look into sourcing their wine from a local and/or organic winery as opposed to wine coming from a large non-local, non-organic company.

Recommended Actions

Another important facet of the implementing a sustainability strategy at the CRSL involves sustainable sourcing of materials used at the CRSL. The Sustainability Office at Macalester has a draft Sustainable Purchasing and Consumption Guide, with the goal of helping departments through the process of selecting sustainable sources for their purchasing needs. We recommend using this report as a guide for future purchases, but have also done independent research to identify some key products used by the CRSL that could be sourced sustainably.

The first area of products we identified as being relatively easy to source

sustainably is ingredients for the cookie baking available to all students in the CRSL basement kitchen. The CRSL currently sources these ingredients from Coborns Delivers, a local online delivery service. On their website, Coborns Delivers offers sustainable and local options. It would be relatively simple to order products from these sections only. In addition, our local grocery stores are replete with local and sustainable options. A quick survey of Whole Foods showed that nearly all cookie ingredients can be either local, organic, or non-GMO (or all three). We recommend that these factors be considered in purchasing cookie ingredients in the future.

Many religious services often require special materials. Palms for Palm Sunday are just one example. Fortunately, there are options for acquiring sustainably sourced palms through the Chamaedorea Palm Certification Project, a local partnership between The University of Minnesota Center for Integrated Natural Resources and Agricultural Management, the Rainforest Alliance TREES Program, and Smartwood. These organizations have created a certification system that certifies palms from Mexico and Guatemala as responsibly produced. These “eco-palms” can be purchased through a partnership with wholesaler Continental Floral Greens and distributor Hermes Floral. The eco-palms program is a great way to get sustainably sourced palms for Palm Sunday, although it is necessary to order early to ensure timely delivery and ready supply.

Additionally, the CRSL uses a large quantity of candles, most of which are made from unsustainable materials that are not biodegradable, such as synthetic waxes. As an alternative, we suggest looking into locally produced soy candles with cotton wicks to use instead of wax-based candles. Many local candlemakers supply soy candles, and their

information has been provided in the table below.

Finally, we recommend that the CRSL looks into purchasing biodegradable natural soap for handwashing in bathrooms and dishwashing in the kitchen. The company Seventh Generation makes a variety of natural soaps and dishwashing detergents that are stocked at local Target stores at prices comparable to standard products. These soaps and detergents have a significantly smaller impact on the environment by leaving fewer chemicals in wastewater. We recommend purchasing Seventh Generation products in order to meet the goal of sustainability in the CRSL.

VI. Integrating Sustainability Statements into Programming

Current Efforts

Currently, the CRSL does not use sustainability statements from any religion and subsequently has not created its own sustainability statement to integrate into its programming and mission. When the idea of having a sustainability statement was introduced during the CRSL meeting that we attended, the staff were enthusiastic and interested in the possibility of crafting their own sustainability statement. As the CRSL has not created a sustainability statement, the issue at hand is providing ideas and recommendations for the staff to form a statement of their own that reflects Macalester's mission and the diverse array of faiths represented at the college.

Top Issues

The CRSL's programming is by far its most far-reaching aspect; without it they

would not have as large or as wide of an impact on the students, staff, faculty, and surrounding community members. Since the CRSL reaches so many different people via programming, it is a very important aspect of sustainability for them to consider. Many faiths and religions have sustainability statements within their literature and beliefs. Faith and sustainability connect in many different ways across all of the different faiths and traditions. Macalester College prides itself on not only acknowledging different faiths, traditions, and religions, but also giving them space to thrive and flourish. The CRSL and its sustainability efforts give these groups a good platform on which to practice their sustainability mandates. In addition to the benefits these groups could bring to the CRSL specifically, this would also benefit the community as a whole by bringing people together around the mutual goal of sustainability.

Research Improvements/Recommended Actions

The CRSL reaches many students through its programming. We recommend integrating sustainability into this programming through faith-based sustainability statements. Many religious and faith traditions involve teachings of stewardship, and there is a fair amount of literature detailing how sustainability and stewardship intersect with faith. The “Exploring Synergies between Faith Values and Education for Sustainable Development” document created by Earth Charter International, the University for Peace, and the United Nations Educational, Scientific, and Cultural Organization does a wonderful job of connecting religious traditions of many cultures to sustainability statements

<http://www.earthcharterinaction.org/invent/images/uploads/Febr 2 2012.pdf>).

Making this literature available to students and community members through programmatic integration or outreach materials could be a very useful way to communicate the larger message of sustainability to individuals involved with the CRSL. To further student involvement and input in making a sustainability statement, we recommend that a community forum sponsored by the CRSL be held to gather the thoughts and insight that students may have on this idea.

VII. Landscaping

Top Issues

Currently, the landscaping immediately surrounding the CRSL is dominated by rose bushes. In addition to the rose bushes, there are a few other plants and exposed dirt beds. Further out from the immediate chapel grounds there are other bushes, grasses, and trees. However, these are not technically included within the grounds of the chapel. A few of the issues presented by this landscaping are water consumption, water runoff, and appearance. Roses are non-native, intensely water-consuming plants which require a lot of maintenance. If they aren't getting lots of care and attention, then they quickly start to look bad and die. This brings up the problem of their appearance – they take a lot of work, and water, in order to look good and maintain the image of Macalester College.

The last landscaping-focused issue, brought up through conversations with the CRSL staff, is the water runoff facilitated by their current landscaping. Due to the set-up

of the Chapel being sunk into the ground, they are very prone to water runoff, miniature “floods” and other issues associated with storm events. Since roses do not absorb water quickly, and neither does bare dirt, the current landscaping does nothing to help prevent runoff into the Chapel. In fact, it facilitates it.

Recommended Actions

The CRSL staff explained that sometimes in the spring, when the snow melts, they are literally forced to put a board across the bottom of the concrete “moat” that surrounds the chapel, as there is so much standing water, ice, and slush. This is due to the faulty water flow design of the landscaping, and one solution that we looked into would hopefully help mitigate the current issues: Rip up the concrete at the bottom and pave the entire “moat” with pervious pavers that the water could sink through. This would help with the water ponding/ice difficulties, which clearly are safety, accessibility, and appearance issues. One of the staff also mentioned that the chapel landscaping may be coming up for replacement soon, so the Macalester landscaping staff should (as later mentioned) consult the sustainable landscaping master plan to implement new landscaping that is aesthetically pleasing and mitigates runoff and other issues.

Because the CRSL is considering updating its landscaping, we would recommend considering Macalester’s Landscaping Masterplan (<http://www.macalester.edu/admdept/sustainability/public.www/initiatives/sustainablelandscapeplan.pdf>), which considers

many factors, including sustainability. One major issue with the landscaping we identified through talking with staff members was the fact that the current landscaping does not effectively control runoff into the lower concrete level of the building's exterior. We would recommend replacing the non-native, water-intensive roses with deep-rooted native plants, which will require much less maintenance and more effectively absorb water. Additionally, adding compost to the soil increases water absorption. Exposed soil surfaces are more likely to create runoff, so we recommend planting over the entire soil area. Connecting with Facilities in designing the landscaping and acquiring native plants is a great first step to making the CRSL's landscaping both attractive and sustainable.

IIX. Conclusion

Identifying areas to improve upon is a relatively easy task -- finding and implementing solutions can be much more daunting. We have identified some recommended actions for the CRSL that are relatively simple fixes and often end up paying back their equivalent in time, money, and effort. The CRSL is a leader in the Macalester community and the Macalester-Groveland neighborhood. It's services reach thousands of people, making the CRSL an ideal leader to integrate sustainability into the broader community.

IX. Appendix

Appendix A: Implementation Resources

Occupancy Detectors

Home Depot (\$19.97 per unit)

Model: Leviton 180 Degree PIR/Incandescent/CFL/LED Occupancy Detectors

www.homedepot.com/p/Leviton-180-Degree-PIR-Incandescent-CFL-LED-Occupancy-Detector-White-R02-IPS02-1LW/203826482#.UomX4GSx-6o

Minnesota Energy Smart

<http://www.mnenergysmart.com/>

HVAC Best Practices Guide

COAG National Strategy on Energy Efficiency

ee.ret.gov.au/sites/default/files/documents/03_2013/hvac-hess-guide-best-practice.pdf

Macalester Sustainable Procurement and Consumption Guidelines

Contact Suzanne Savanick Hansen, Sustainability Manager

hansen2@macalester.edu

Coborns Delivers Local/Sustainable Products

<https://www.cobornsdelivers.com/login>

Along the top menu bar select “Organic & Natural” and “Local Favorites”

Whole Foods Sustainable Product Information

30 Fairview Ave. S, St. Paul

- 365 Brand Whole Trade USA Baking Chips - \$2.99/bag
- Crystal Organic Sugar, USDA Organic, EcoSocial Certified, Rainforest Alliance Certified - \$5.99/kg
- 365 USDA Organic USA Vanilla Extract - \$6.99/2 oz.
- Whole Grain Milling Co. (Welcome, MN) Organic Whole Wheat Bread Flour - \$1.39/lb (bulk)
- Phil's Fresh Eggs, Cage-Free & Certified Humane - \$3.49/dozen
- Earth Balance Natural Peanut Butter and flaxseed, non-GMO - \$4.99/jar
- Organic Valley Sweet Cream Butter \$5.99/4 quarters
- Cedar Summit Farm Organic Grass-fed Milk - \$4.39/Half Gallon
- Spectrum USDA Organic Canola Oil - \$11.99/bottle

EcoPalms

The University of Minnesota Center for Integrated Natural Resources and Agricultural Management (CINRAM), The Rainforest Alliance TREES Program, and Smartwood

www.ecopalms.org

Local Soy Candles Purchasing Guide

www.findsoycandles.com/scmanufst/scminnesota.html

Seventh Generation Products

Target

[http://www.target.com/c/grocery-essentials/-/N-5xt1a/Ntk-All/Ntt-seventh+generation/Ntx-matchallpartial+rel+ALL#?lnk=snava seventh+generation c-grocery+essentials](http://www.target.com/c/grocery-essentials/-/N-5xt1a/Ntk-All/Ntt-seventh+generation/Ntx-matchallpartial+rel+ALL#?lnk=snava%20seventh+generation%20c-grocery+essentials)

Macalester Sustainable Landscaping Master Plan

<http://www.macalester.edu/admdept/sustainability/public.www/initiatives/sustainablelandscapeplan.pdf>

Exploring Synergies between Faith Values and Education for Sustainable Development

Faith-Based Sustainability Statements

http://www.earthcharterinaction.org/invent/images/uploads/Febr_2_2012.pdf

Twin Cities Area Wineries

A list of Twin Cities wineries is available here:

<http://mngrapegrowers.com/twin-cities-region>.

Appendix B: Recommending Actions & Priorities

Items are color-coded in terms of priority.

***= high priority (represents simple fix, or a solution with a quick payback)

**= medium priority

*= lower priority

Sustainability Category	Possible Improvements	Recommended Actions
--------------------------------	------------------------------	----------------------------

<p>Energy</p>	<p>Occupancy detectors on lights ***</p> <p>Replacing Halogens with Fluorescent or LED bulbs ***</p>	<ul style="list-style-type: none"> ● Installing Leviton 180 Degree PIR/ Incandescent/CFL/LED Occupancy Detectors ● Contact MN EnergySmart *** ● Replace Chapel floodlights and CRSL basement lights
<p>Sustainable Materials Sourcing</p>	<p>Consider Sustainable Purchasing ***</p> <p>Sustainable (Local, Organic) Ingredients in Cookie Baking ***</p> <p>Sustainably Sourced Palms for Palm Sunday *</p> <p>Environmentally-Friendly Candles *</p>	<ul style="list-style-type: none"> ● Consult Macalester Sustainable Procurement and Consumption Guidelines ● Select local and organic option when purchasing ingredients from Coborns Delivers ● Refer below for local grocery store cookie supplies ● Purchase certified sustainable palms from ecopalms.org ● Consider soy candles and candles made from other biodegradable materials
<p>Landscaping</p>	<p>Landscaping Master Plan **</p> <p>Reducing Runoff</p> <p>Native plants</p>	<ul style="list-style-type: none"> ● Use the Macalester Landscaping Master Plan for future renovations ● Use native plants with deep roots ● Add compost to the soil ● Reduce exposed soil and impervious surfaces ● Consult Grounds for

		information about acquiring native plants
Sustainability Programming	<p>Incorporating Sustainability Statements ***</p> <p>Sustainability & Faith Guide ***</p>	<ul style="list-style-type: none"> ● Use the UN “Exploring Synergies between Faith Values and Education for Sustainable Development” document when integrating faith-based sustainability statements into programming/outreach materials