



UNIVERSITY OF MONTANA

SUSTAINABILITY

2016

WASTE

FOOD

GREEN

CAMPUS

COMMUNITY

ANNUAL

REPORT



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Annual Report 2016

In support of our climate action goals, including our goal of achieving carbon neutrality by 2020, the University of Montana continues to pursue energy conservation measures, opportunities to generate renewable energy for campus, and campus-wide energy management strategies.

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ACTION

ENERGY & CLIMATE

The Smart Buildings Initiative, started in 2012 with student leadership, is aimed at measuring energy consumption on campus and funding efficiency projects with savings realized from energy conservation measures. To date, UM has installed 45 electric smart meters and 36 steam smart meters around campus. This means that 88% of UM's main campus electricity consumption and 76% of its steam is now tracked via smart meter!

In 2015, UM saw its energy use drop by 4%, despite a 10% increase in campus gross conditioned squared footage since 2007.

UM ALSO:

Realized - \$65,000 in utilities savings from the University Center's performance contract with McKinstry to conduct weatherization, lighting, controls, and ventilation systems improvements.

Collaborated - The ASUM Sustainability Center and ASUM Sustainability Board collaborated to garner support for a large-scale renewable energy project on campus, successfully passing sustainability-focused resolutions through two of the three shared governance organizations on campus, as well as conducting a survey of over 700 faculty and staff, the results of which verified the wide-spread support for such a project.

Saved - around \$19k on utilities from several low/no-cost improvements in the Health Sciences building.

Began - a study of the energy savings realized from mature trees around campus that provide additional wind protection and cooling in our buildings. As the state arboretum, UM makes an effort to improve air quality, biodiversity, and the aesthetic of campus with additional trees each year. For the first year, UM was recognized for its efforts by the Tree Campus USA program.



WASTE



1 TON RECYCLED

16K LBS REUSED

60 HRS REQUIRED

CAMPUS THRIFT 2016

REDUCTION & DIVERSION

Recycled - approximately one ton of material per day, including aluminum, plastics, e-waste, wood shipping pallets, and much more. All of this was accomplished by a small team funded by our student recycling fee, faculty and staff payroll deductions, and support from UM facilities services.



Coordinated - the Campus Thrift move-out event in May of 2015 (and again in May 2016), diverting 16,000 lbs of clothing, small appliances, bedding, and furniture in its first year. Campus partners and over 60 hours of volunteer time made this possible!



GREEN



STUDENT ATHLETE ACADEMIC CENTER

2 LEED
CERTIFIED
BUILDINGS

BUILDING



GILKEY EXECUTIVE EDUCATION BUILDING

Completed - two LEED Gold certified buildings, the Student Athlete Academic Center and the Gilkey Executive Education Building.

Hosted - US Green Building Council Chief Product Officer Scott Horst for a lecture on the future of green building design in fall 2015.





FOOD



\$1Million+
ON MT FOOD
PRODUCTS

\$45k
GRANT
AWARDED

17,000
SQ. FT. NEW
GARDEN SPACE

GALACTIC FARMS AQUAPONIC GARDEN

SYSTEMS

Purchased - \$1million+ of Montana grown and raised food products, representing 31% of UM Dining's total food procurement budget.

Awarded - \$45k in grant funding by the Montana Pulse Advisory Committee. The money will be used to purchase a pressure cooker which will allow UM Dining to significantly increase its purchases of Montana grown pulse crops.

Collaborated - with the Western Montana Growers Coop and started the University's first workplace Community Supported Agriculture (CSA) program, wherein UM employees purchase a "share" of vegetables and other local foods at the start of the season and receive a weekly box of delicious local products.

Launched - the new South Avenue Garden, expanding campus gardening space by 17,000 sq ft.





CAMPUS



TOWARD
ZERO
WASTE

\$80K
INVESTED

3RD
ANNUAL
CELEBRATION

ENGAGEMENT

Hosted - the Conscious College Road Tour on March 24 in the University Center, offering abundant samples and information on everything from green cleaning products to fashion and zero waste living.

Leading - with the leadership of the Residence Hall sustainability quality circle and the Eco Reps, in-room recycling was successfully expanded in Knowles and Miller Halls.

Invested - the Kless Revolving Energy Loan Fund (KRELf), a loan program funded through the Student Sustainability Fee, invested over \$80,000 in student and staff initiated projects this year that aim to promote resource conservation, waste reduction, and foster student involvement in sustainability efforts.

Celebrating - in partnership with the Student Involvement Network, the ASUM Sustainability Center organized the third annual SustainaGANZA event on the Oval, a celebration of the many sustainability-related student organizations and projects at UM.

COMMUNITY



7 YEAR
PARTNERSHIP

SUSTAINABILITY PARTNERSHIP OF THE NORTHERN ROCKIES (SPNR), JUNE 2016

PARTNERSHIP

Hosted - the Sustainability Partnership of the Northern Rockies (SPNR) annual meeting, bringing sustainability professionals from MSU, University of Idaho, Gonzaga, and Washington State University to campus for 2 days of collaboration and planning. UM is currently a co-facilitator of this regional partnership that has been around for 7 years.



Partnered - in the Eco Expo, a day-long event in the University Center featuring workshops, panels, and vendors all focused on sustainability topics.



CAMPUS



- 76 RENTAL BIKES
- 200K GALLONS DIESEL
- 1,500 BIKE LIGHTS

Pedaling - through ASUM Transportation added or replaced 50 rental bikes in its fleet, bringing the total number of long-term rentals to 76. These bikes further allow students to live in Missoula and attend UM without owning a vehicle.

TRANSPORTATION

Purchased - two Proterra Catalyst fast-charging battery-electric buses for its ASUM Transportation UDASH fleet. The buses, with zero tailpipe emissions, are scheduled for delivery in August 2016 and will replace two 1998 diesel buses. The battery-electric buses will prevent nearly 200,000 gallons of diesel fuel from being burned over their useful life—nearly one third of an Olympic-sized swimming pool. With lower maintenance and operations costs, ASUM expects to save \$89,000 per bus over the life of the project.



Offsetting - in June 2016, ASUM Transportation will offset the carbon emissions from its entire fleet of buses and support vehicles for the first time ever. With an ultimate goal of zero-emissions, offsets will help ASUM address its carbon footprint in the short term.



Partnering - with the City of Missoula and St. Patrick Hospital Trauma Center, ASUM Transportation gave away over 1,500 bike lights and 100 bike helmets to UM students during the 2015-16 academic year.

