

Wednesday, June 15, 2016

Commission on Community Service

Kaleena Miller



Outline

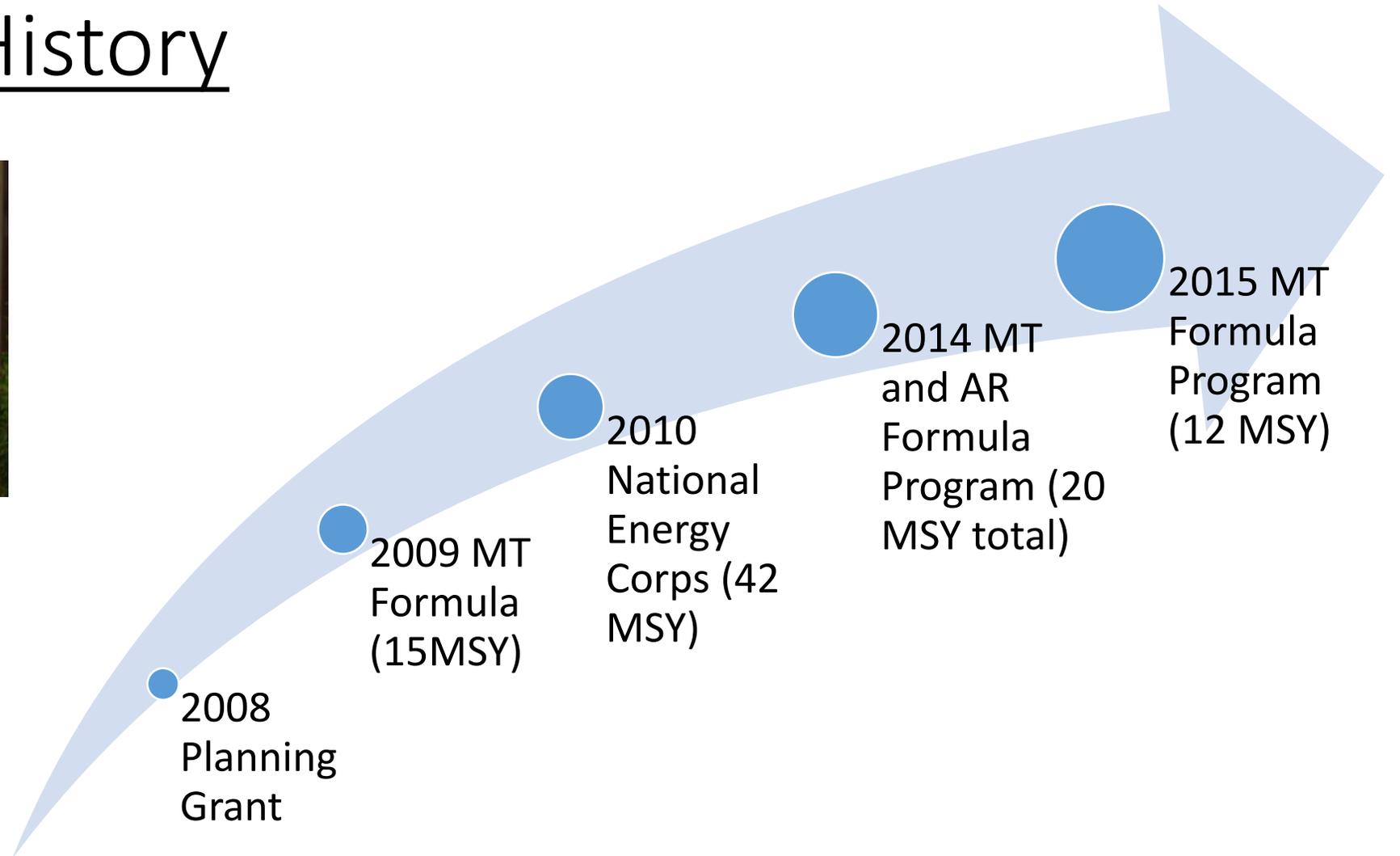
- The Story of Energy Corps
- Where Are Our Members?
- What Services Are They Providing?
- Impact Stories
- Looking Ahead



Energy Corps History

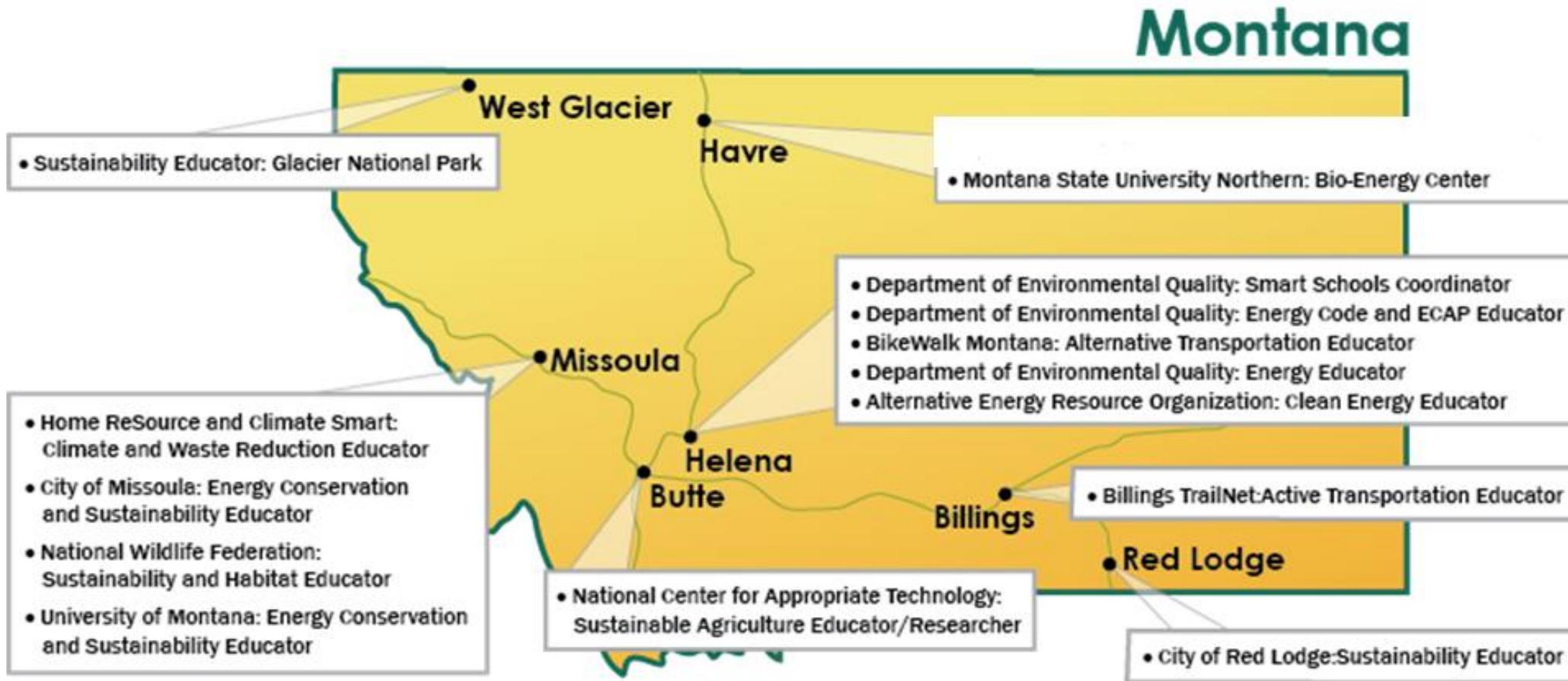


NATIONAL CENTER FOR
APPROPRIATE TECHNOLOGY



Where Are Our Members?

12 MSY (10 ft, 4 pt)



Service Activities

- Energy Education
- Hands On Assistance
 - Assessment of buildings
 - Light weatherization
- Community Sustainability



Energy Education

- School Presentations
- Community Workshops
- Informational Booths
- One-on-One Interactions

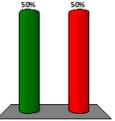


Choose the picture that is **LESS** energy.

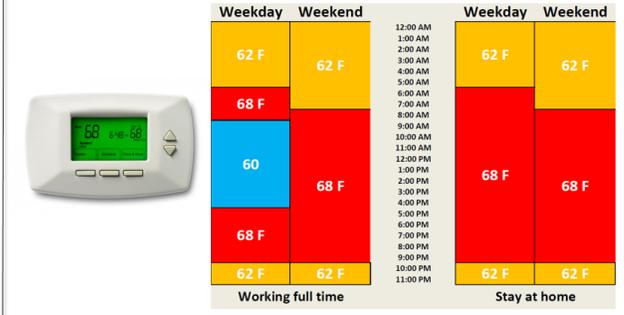
A. 

B. 





Programmable Thermostat



Set back and SAVE: Programmable thermostats will adjust heating and cooling so that you don't have to remember



Light Weatherization



Community Sustainability



MCI

HOME ABOUT MOVING FORWARD OUR WORK: THE BUCKETS CONTACT US

Missoula's Climate Initiative

A collaborative effort to adapt, mitigate, and inspire action

ABOUT THIS INITIATIVE

— VISIT WWW.CITYOFREDLODGE.NET/EARTHWEEK FOR ALL THE DETAILS! —

APRIL 17TH – APRIL 23RD

2016 EARTH WEEK

#MTEARTH16

ALL WEEK: REWIND E—WASTE PICK UP! CALL TOLL @ 426-0250
 23% OFF BULK GREEN TEA @ RED LODGE BOOKS AND TEA
 HONEY LAVENDER LATTE MADE WITH LOCAL HONEY @ HONEY'S

SUNDAY 17: RUSH GREEN TEAM FAMILY MOVIE ADVENTURE: THE DEAR DASH! @ 8LBS 2PM
 @ OLD ROOSEVELT SCHOOL 6:30PM

MONDAY 18: COMPOSTING 101 BY FOOD PARTNERSHIP COUNCIL – YOUTH GARDEN
 @ OLD ROOSEVELT SCHOOL 6:30PM

TUESDAY 19: COMMUNITY SOLAR DISCUSSION AND PINT NIGHT! @ SAM'S TAP ROOM 6:30PM
 MAS TACO BYOT (BRING YOUR OWN TUPPERWARE) FOR SALSA AND GET FREE CHIPS ON TO-GO ORDERS!

WEDNESDAY 20: ACTIVE TRANSPORTATION SIDEWALK INVENTORY TO CONVENIENCE @ HONEY'S 5PM
 ECOLOGY GAME NIGHT @ RED LODGE BOOKS AND TEA 6-8PM

THURSDAY 21: SUSTAINABILITY IN YOUR BUSINESS PANEL DISCUSSION @ HONEY'S 6PM

FRIDAY 22: JANE YEAGUSON FUNDRAISER DINNER @ CAFE NEGOS 6-8PM
 LOCALLY SOURCED BREAKFAST & LUNCH SPECIAL @ HONEY'S

SATURDAY 23: PARKS CLEANUP! CONVENIENCE @ SKATE PARK 10AM
 GREEN TEA TASTING @ RED LODGE BOOKS AND TEA

BRING YOUR OWN CUP IN FOR ONE FREE DRIP COFFEE!
 MON: CAFE 1050 | TUES: WILD TABLE | WED: CAFE NEGOS | THURS: COFFEE ROASTERS | FRI: HONEY'S

FOR THE 40th ANNUAL EARTH WEEK, VISIT WWW.CITYOFREDLODGE.NET/EARTHWEEK FOR ALL THE DETAILS!
 RED LODGE BOOKS AND TEA | HONEY'S | CAFE NEGOS | COFFEE ROASTERS | WILD TABLE

Climate Smart Missoula's 2016 Monthly Meetups

5-8:30pm. First Thursday of the Month

January 14 Education & Outreach	February 4 Toward Zero Waste	March 3 Healthy Thriving Community	April 7 Inventory & Metrics
May 5 Local Food & Agriculture	June 2 Urban & Wildland Forestry	July 7 Transportation	August 7 Water Protection & Conservation
September 1 Renewable Energy	October 6 Green Building Energy Efficiency	November 3 Sustainable Economic Development	December 1 Smart Growth

JOIN US @ **Imagine Nation Brewing**
 5-8:30PM First Thursday of the Month (except November)
 Connect and Partner on these events: climatesmartmissoula.org

CLIMATE SMART MISSOULA
 CLIMATE SMART MISSOULA

Impact Stories

- SMART School Challenge
- Box Elder Bots
- Program Collaboration





2015:

Schools Participating - 46

Energy \$ Saved - \$100,000 from EE initiatives

Carbon Offset – 123 metric tons of CO₂

Waste Diverted – 32 tons of waste diverted

2016:

Schools Participating – 61

Energy \$ Saved – \$173,275 from EE initiatives

Carbon Offset – 1026 metric tons of CO₂

Waste Diverted – 34.3 tons of waste diverted





The Box Elder Bots

Post Season Update



Student Summaries

Hello I am Whitney Gardipee, a junior . On our trip to Billings we learned a lot about the competition as well as the other participants for this year and next year. Sadly to say, our robot Fredy could not keep it together. But our team still scored a lot of points when we did compete. I am excited to build, drive, and, hopefully, win next year's competition.

The Montana Technology Student Association (TSA) conference brings together over ten middle and high schools to compete in 24 different competitions. The competitions range from skill-based challenges like internet surfing to creation-based challenges like bridge design. The objective is to introduce students to engineering.

Students are given competition rules in November and then the entire school year to create and strategize. The Box Elder Bots competed in the VEX Nothing But Net Challenge. VEX is an internationally recognized brand of educational robotics. This year's competition, Nothing But Net, happened to align perfectly with the basketball-oriented Box Elder High School.

The Bots came together in October when MSU Northern's Advanced Fuels Center (AFC) Energy Corps Service Member Alex Jones approached Principal Jeremy MacDonald about creating Science, Technology, Engineering, and Mathematics (STEM) extracurriculars at the high school. It is the belief of the AFC that Montana has the ability to produce great scientists and engineers if students are only exposed sooner. Therefore, a team of six students rose to the challenge of creating a robot to shoot foam balls from nothing but some bars of aluminum and plastic gears.

The team arrived in Billings for the conference on Sunday, April 10th and was eager to finish their robot. Due to some last minute malfunctions, the group worked until the competition to complete their robot "Fredy". After an opening ceremony and some practice on the foam mats that would be the field, Fredy won his first qualifying round with five points. He went on to score a total of nineteen points over the course of the day in the qualifying matches, much to driver Alex MacDonald and coaches Alexcia Eagleman and Whitney Gardipee's glee.

The second day of the competition began with several complications. Fredy had lost several parts during the travel the day before and his right side wheels began malfunctioning. This did not deter new driver Whitney. She led the robot into the first round of finals. While the team unfortunately did not make it past the first match at finals, it was generally agreed upon that this was a great learning experience and the students are excited for next year's competition.



Service Program Collaborations



Looking ahead....



Energy Corps Host Sites in 2020?
HRDCs?
Electric Cooperatives?
City/County Governments?
All of the above?

Questions?

Thank you for your time today!

