

Power BI

Clockworks Impact Report

Western Michigan University

March 14 2017 – April 30 2018

[View in Power BI](#) ↗

Last data refresh:
5/2/2018 4:49:27 PM Eastern Standard
Time

AM Eastern



8 Buildings onboarded

169 Equipment connected

1931 Points monitored

185 Analyses applied

Last 90 Days

9049 Diagnostics generated

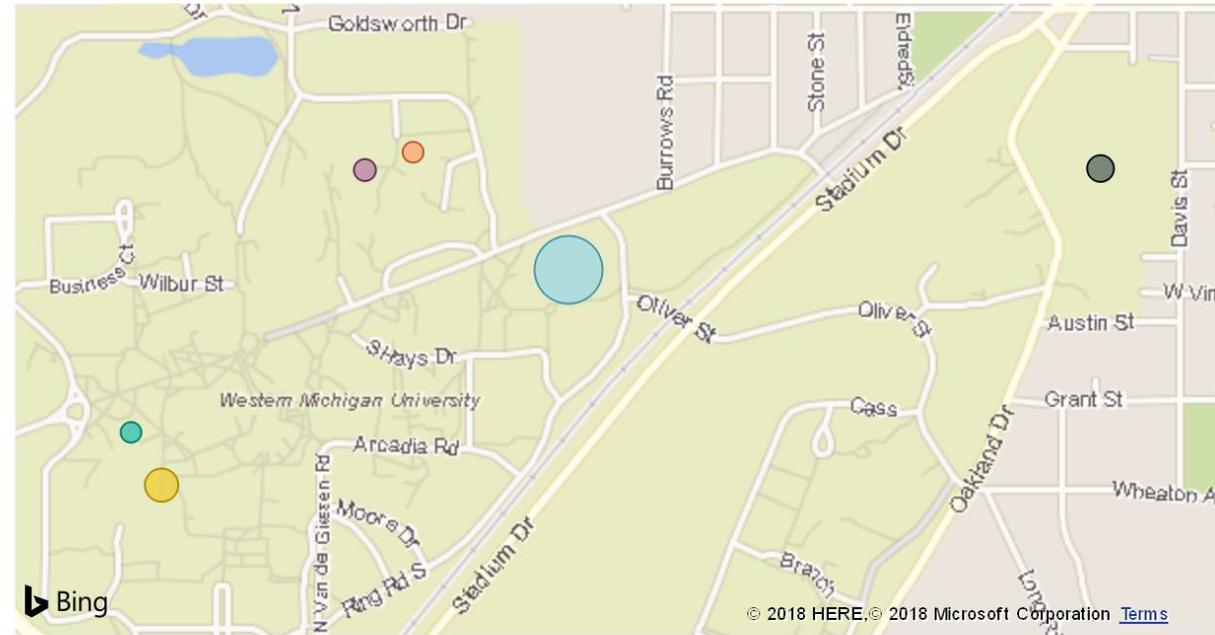
98 (58.%) Equipment have identified f...

20 Tasks created

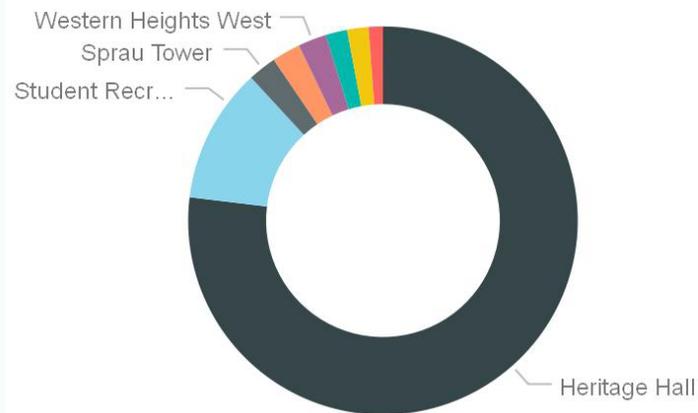
28 Tasks completed

Buildings by Cost

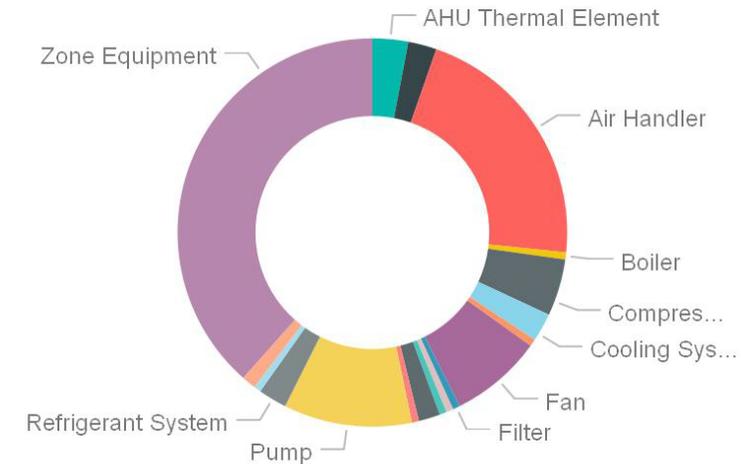
- Building Name
- Faunce Student Services
 - Heritage Hall
 - Kohrman Hall
 - South Kohrman Hall
 - Sprau Tower
 - Student Recreation Center
 - Western Heights East
 - Western Heights West



Equipment Count by Building



Equipment Count by Class



Average Daily Avoidable Costs

\$64

Avoidable Cooling Use (Ton-Hrs)

38,133

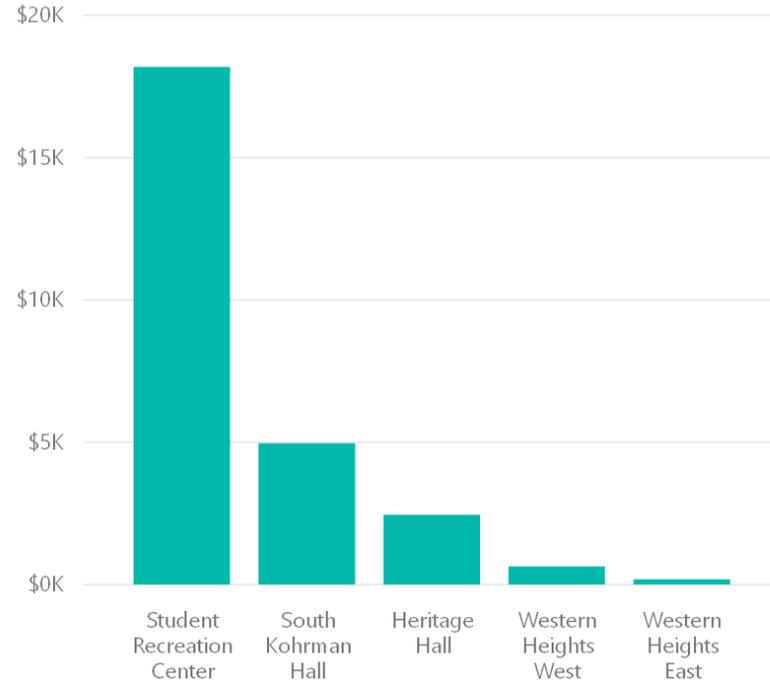
Avoidable Electric Use (kWh)

92,155

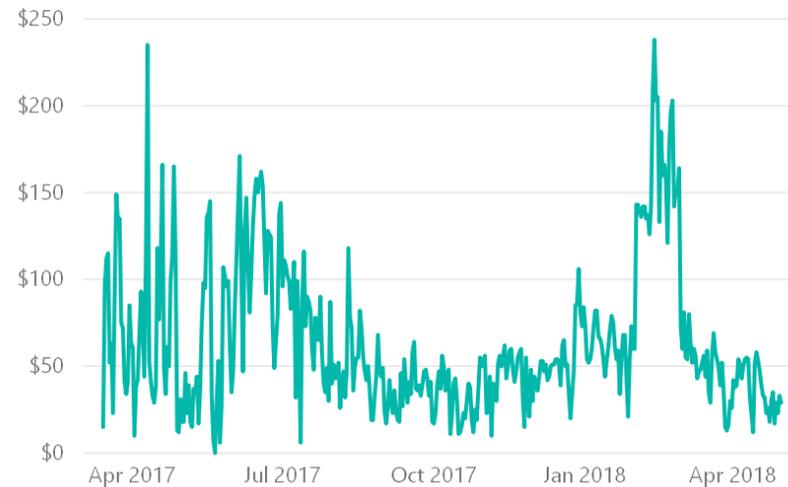
Avoidable Heating Use (kBtu)

2,610,936

Cost by Building (Top 5)

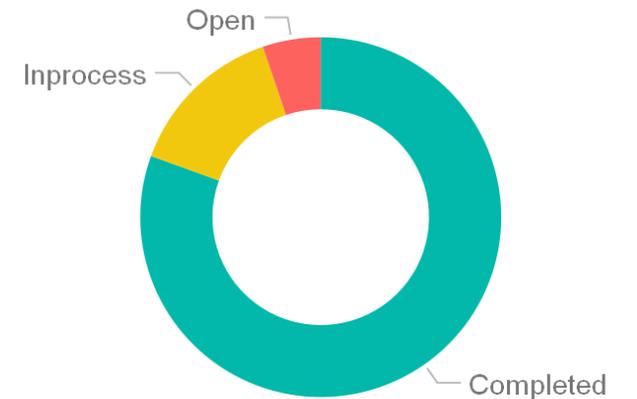
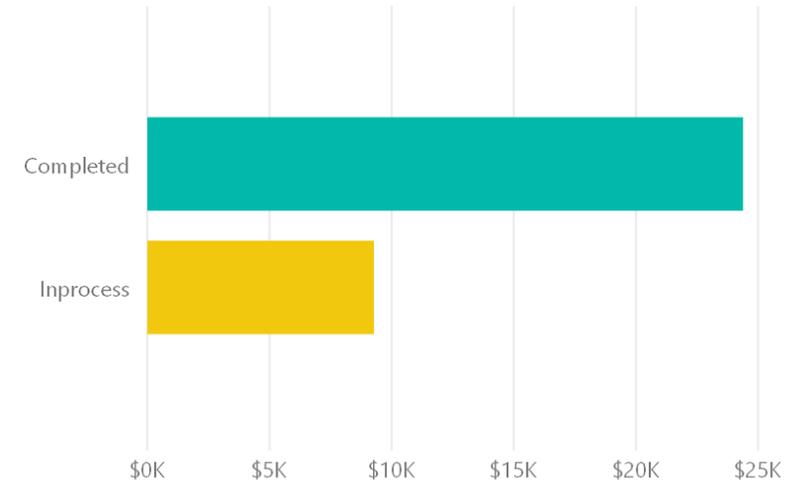


Cost by Date



Annual Projected Task Savings

\$33,657



Equipment

Total Connected

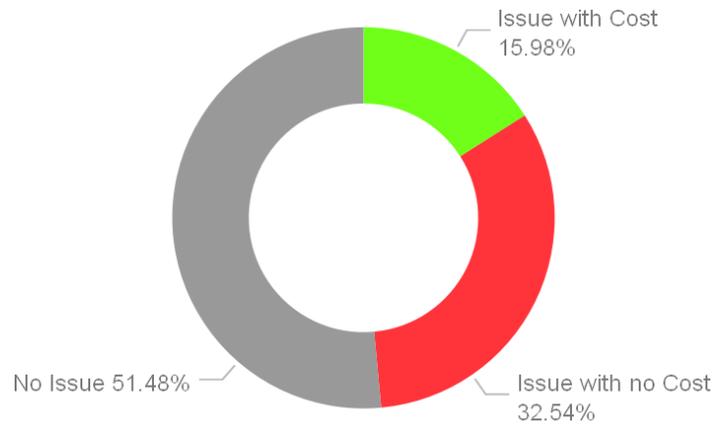
169

With Issues

107

With Comfort Issues

82



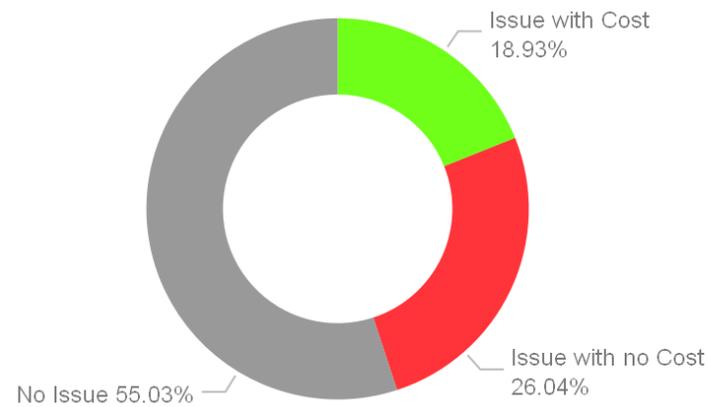
● Issue with Cost ● Issue with no Cost ● No Issue

With Energy Issues

76

With Energy Issues Costs

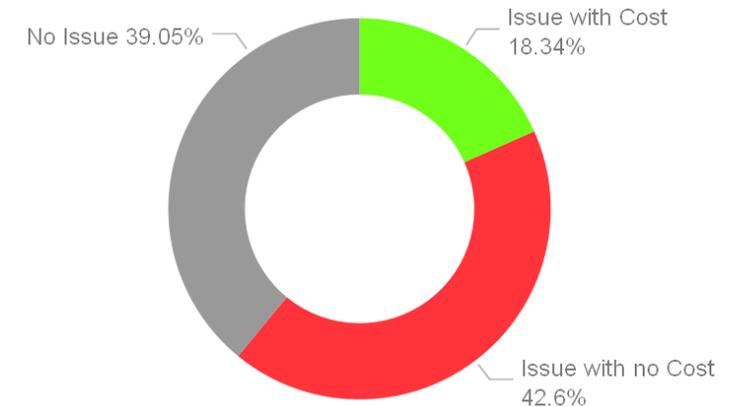
32



● Issue with Cost ● Issue with no Cost ● No Issue

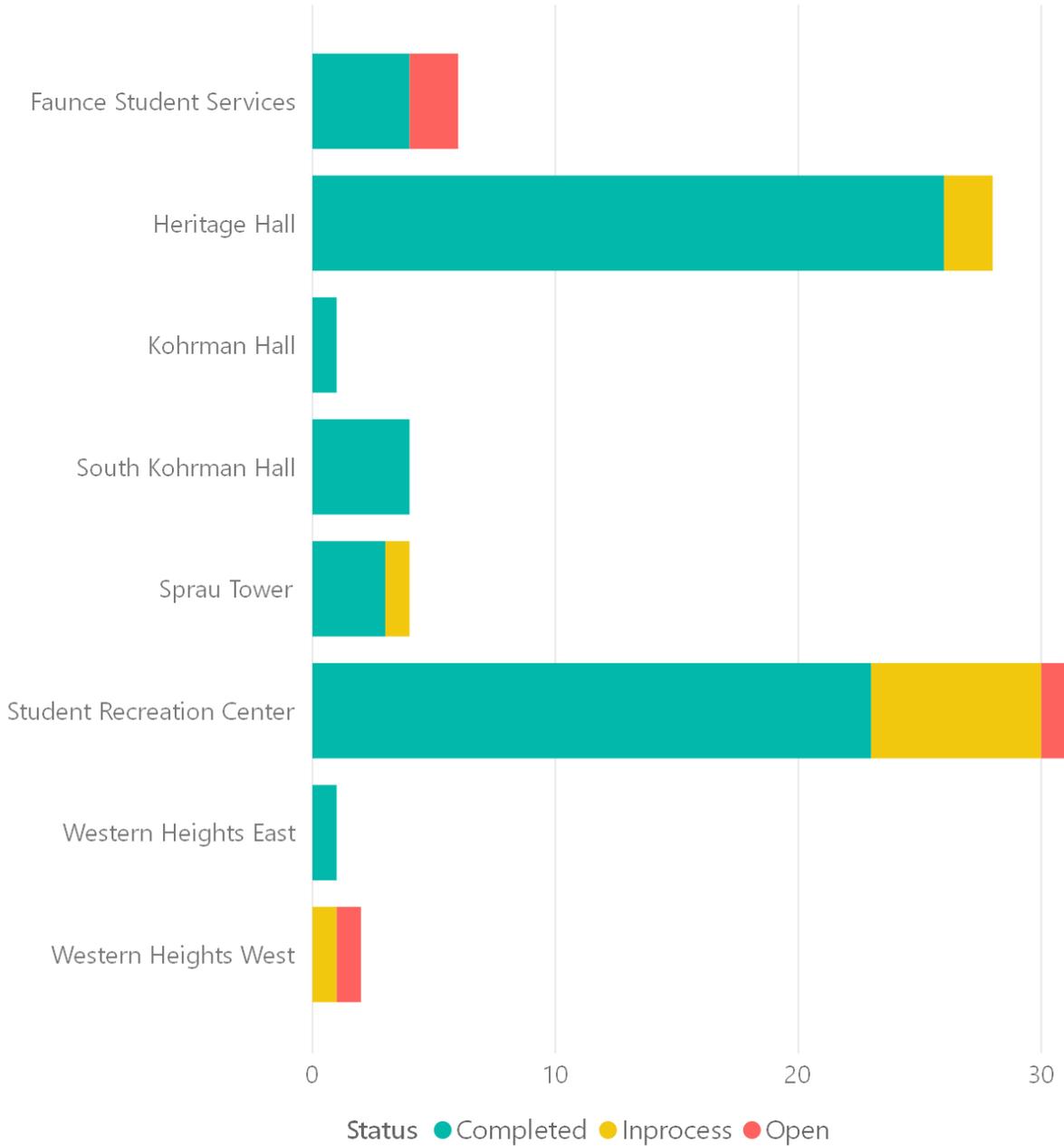
With Maintenance Issues

103



● Issue with Cost ● Issue with no Cost ● No Issue

Tasks by Status



Completed Tasks

62

Open & In Process Tasks

15

Summary of Completed Tasks

Annual Projected Task Savings

\$33,657

With Energy Impact

6

With calculable savings

With Comfort Impact

31

23

With non-calculable savings

With Maintenance Impact

61

Costs by Building

Building Name	Cost
Student Recreation Center	\$18,188
South Kohrman Hall	\$4,963
Heritage Hall	\$2,452
Western Heights West	\$637
Western Heights East	\$185
Faunce Student Services	\$105
Kohrman Hall	\$0
Sprau Tower	\$0
Total	\$26,530

Top Most Costly Equipment

Building Equipment Name	Cost	Max. Comfort Priority	Max. Energy Priority	Max. Maintenance Priority	Notes Summary
HV-1 / Student Recreation Center	\$5,118	10	10	6	Damper stuck closed. Sensor error (high). Mixed air te
AHU-1 / South Kohrman Hall	\$4,963	10	10	6	Excess cooling.
AHU-4 / Student Recreation Center	\$4,271	10	10	5	Fan on while unoccupied.
HtgWtrSys / Heritage Hall	\$1,650	0	6	6	Diff pressure higher than setpoint.
AHU-7 / Student Recreation Center	\$1,393	10	10	6	Fan on while unoccupied.
HV-6 / Student Recreation Center	\$1,231	10	9	6	Damper short cycling.
HV-4 / Student Recreation Center	\$832	10	10	6	Fan on while unoccupied.
HV-3 / Student Recreation Center	\$781	10	4	6	Damper short cycling.
HV-2 / Student Recreation Center	\$628	10	8	6	Damper stuck closed. Mixed air temp higher than exp
AHU-2 / Student Recreation Center	\$566	10	8	6	Damper short cycling.
RTU-1 / Western Heights West	\$501	10	7	6	Compressor short cycling.
Total	\$26,530	10	10	6	Abnormal fan current.

Notes Summary

- Excess heating.
- Excess mechanical cooling. OA Damper should be m...
- Malfunctioning heating face/bypass damper.
- Malfunctioning heating face/bypass damper. Room ...
- Malfunctioning heating face/bypass damper. Room ...
- No static pressure reset. Flow sensor error. Flow sens...
- No static pressure reset. Supply static pressure small...
- Possible simultaneous or excess heating and cooling.
- Possible simultaneous or excess heating and cooling...
- Possible simultaneous or excess heating and cooling...

