



Commissioner Chris Trubac
Barbara Andersen
Nichole Biber
Fred Cowles
Sarah Mullkoff
Claire Nowicki
Matthew Lincoln
Brenda Gray

THE ENVIRONMENTAL AFFAIRS COMMISSION WILL MEET ON APRIL 26, 2023 AT 5:30 PM IN CONFERENCE ROOM D&E OF THE HUMAN SERVICES BUILDING, 5303 S. CEDAR, LANSING.

Agenda

Call to Order

Approval of March 1, 2023 Draft Minutes

Additions to the Agenda

Limited Public Comment

1. Michigan Green Communities Program (*Update*)
2. Energy Audit
 - a. Phase 1 Project List
 - b. Phase 2 Development Framework
3. Sustainability Action Plan (*Discussion*)
4. Forager Trail and Park (*Update*)

Announcements

Public Comment

Adjournment

ENVIRONMENTAL AFFAIRS COMMISSION

March 22, 2023

Draft Minutes

Members Present: Andersen, Biber, Cowles, Mulkoff, Trubac, Nowicki, Lincoln, Gray

Members Absent:

Others Present: Morgan Feldpausch, Elaine Fischhoff, Kerrin O'Brian

The meeting was called to order by Commissioner Trubac at 5:30 p.m. in Conference Room A of the Human Services Building, 5303 S. Cedar Street, Lansing Michigan.

Approval of Draft Minutes

The minutes were approved.

Additions to the Agenda

None.

Limited Public Comment

None.

1. Energy Audit
 - a. Project funding allocation request
 - b. Formal adoption discussion

The commission discussed some of the goals that may be sought using the information collected from the energy audit as well as establishing parameters for developing further plans. The commission will continue this discussion at the next meeting.

2. Solid Waste Management Plan/Materials Management Plan
 - a. Michigan Recycling Coalition - Kerrin O'Brian (*Presentation*)

Kerrin O'Brian gave a presentation regarding some of the updates to Michigan's waste/recycling policy. 18% of waste is recycled in Michigan and the national average is 34%. The state is requiring that all counties have a materials management plan. These plans differ from current Solid Waste Management plans in that they will contain certain requirements for composting and recycling. EGLE is developing a toolbox to offer guidance and will call for plans in 2024. Each county will receive 60k per year for 5 years to develop these plans with an additional 10k per year per county for multi-county plans.

* 6:22 pm Chris Tubac left the meeting & Sarah Mulkoff became acting Chair

3. Michigan Green Communities Program (*Update*)

Morgan Feldpausch gave an update on the county application to Michigan Green Communities (MGC). We will likely achieve Silver Level in our first year

Announcements

Nichole Biber announced that today is World Water Day and a state bill was introduced to place water in the public trust.

Matthew Lincoln has been keeping his township updated on the sustainability plan the commission is discussing. He also met with the superintendent at Holt Public Schools and is glad they are thinking about energy efficiency and renewable energy as well as the possibility of converting unused grass areas.

Public Comment

None.

Adjournment

The meeting was adjourned by Vice-Chairperson Mulkoff at 6:43 pm.

**Bureau Veritas Ingham County Ashrae Level II + Net Zero Energy Audit
Recommendation Implementation Plan
Phase 1**

Building - Project Number	Implementation Level	Managing Entity	Work Order Number	Project Description	Projected Initial Investment (\$)	Estimated Annual Savings			Total GHG Savings (MtCO2/Yr)	Estimated Annual Cost Savings (\$)
						Natural Gas (Therms)	Electricity (kWh)	Water (kGal)		
AS - 1	100%	Facilities		Exhaust Fan Timers	\$324	246	548	0	2	\$253
BP - WSB - 1	100%	Parks	NA	External Air Leakage Control	\$347	192	300	0	1	\$210
CH & HILL - 3	100%	Facilities	/	Energy Savers on Vending Machines	\$223	0	1610	0	0.85	\$221
CH & HILL - 5	100%	Facilities	57105 /	Low Flow Faucet Aerators	\$3,441	211	0	21	1.12	\$327
CH & HILL - 6	50%	Facilities	/	Flush Tank Toilets to Dual Flush	\$1,341	0	0	16.5	0	\$167
CH & HILL - 7	100%	Facilities	/	Chilled Water Reset Control	\$830	0	23866	0	16.61	\$3,270
CH & HILL - 8	100%	Facilities	57109 / NA	Low Flow Shower Heads	\$148	44	0	4	0.23	\$64
DO - 1	100%	Facilities	57110	Low Flow Faucet Aerators	\$90	0	710	5	0	\$185
ICFC - 1	100%	Facilities	57114	Low Flow Shower Heads	\$420	270	0	18	1	\$350
ICFC - 4	20%	Facilities		Flush Tank Toilets to Dual Flush	\$153	0	0	3	0	\$21
ICFC - 5	90%	Facilities	57115	Low Flow Faucet Aerators	\$2,119	71.1	0	9	0	\$119
FCFS - 4	100%	Facilities	57116	Low Flow Faucet Aerators	\$808	99	0	12	1	\$302
FCFS - 5	100%	Facilities	57117	External Air Leakage Control	\$1,707	390	748	0	3	\$355
FG - MA - 2	100%	Fairgrounds	NA	Low Flow Faucet Aerators	\$90	166	1	1	0	\$48
HSB - 1	100%	Facilities	57118	Exhaust Fan Timers	\$324	3536	60438	0	55	\$10,307
HSB - 2	100%	Facilities	57120	Low Flow Shower Heads	\$148	1	0	7	0	\$110
HSB - 3	100%	Facilities	57119	Low Flow Faucet Aerators	\$1,675	337	0	61	2	\$1,172
LLP - SMB - 1	50%	Parks	NA	Low Flow Faucet Aerators	\$15	55.5	0	3	0.295	\$174
LLP - SMB - 3	75%	Parks	NA	External Air Leakage Control	\$652	169.5	0	0	0.9	\$134
LLP - BS - 1	75%	Parks	NA	Linear Fluorescent Lamps Replacement	\$95	0	282	0	0	\$177
VMGP - 4	100%	Facilities	57121	Low Flow Faucet Aerators	\$538	0	0	19	0	\$175
VMGP - 5	100%	Facilities	57122	Exhaust Fan Timers	\$324	0	4713	0	5	\$1,158
YC - 1	100%	Facilities	57125	Low Flow Shower Heads	\$148	168	0	26	1	\$385
YC - 2	100%	Facilities	57126	Low Flow Faucet Aerators	\$150	46	0	8	0	\$119
Total					\$16,110	6002.1	93216	213.5	91.005	\$19,802

Ashrae Level II + Net Zero Energy Audit Recommendation Phased Implementation Plan Narrative

Phase 1:

Timeframe: 2023

Projected Initial Investment Cost (Individual): <\$5,000.00

Total Number of Projects: 24

Total Number of Facilities Included: 13

Estimated Carbon Footprint Reduction: 1.18%

Projects were selected for this phase from the provided lists of recommended energy conservation measures for individual facilities included in the Ashrae Level II + Net Zero Energy Audit completed in 2022 by Bureau Veritas. Staff worked directly with the three facility managing departments to determine the framework for selection and evaluate recommended projects. Detailed information about all individual projects (buildings, costs, savings, etc.), can be found in the corresponding Phase 1 Energy Audit Implementation Plan document.

Phase 1 project selection primarily considered the timeline for implementation, the projected initial investment costs, estimated environmental savings, and interdepartmental considerations such as the age of the equipment, on-going/upcoming projects, etc. Projects listed are considered the “low hanging fruit” level projects, being able to be completed within the 2023 calendar year and within the corresponding departments existing budget. Types of individual projects and the number of each type of project can be found in the table below.

Project Types	Count of Project Types
Chilled Water Reset Control	1
Energy Savers on Vending Machines	1
Exhaust Fan Timers	3
External Air Leakage Control	3
Flush Tank Toilets to Dual Flush	2
Linear Fluorescent Lamps Replacement	1
Low Flow Faucet Aerators	9
Low Flow Shower Heads	4
Total Count of Projects	24

The vast majority of projects will be implemented 100% as recommended in the facilitates corresponding list of recommended energy conservation measures. Projects listed with less than 100% implementation level (6 total projects) will be completed in part due to individual project concerns (intended equipment usage requirements for example) or as part of pilot test projects in efforts to evaluate practical feasibility of implementation of projects.

A comparison to existing annual energy and water consumption (included in the Net-Zero Audit Roll-Up Report), is included in the Phase 1 Energy Audit Implementation Plan document to demonstrate the overall effects of implementation of this phase.

Phase 2:

Timeline: 2024-2026

Projected Initial Investment Cost (Individual):

Total Number of Projects:

Total Number of Facilities Included:

Estimated Carbon Footprint Reduction:

Projects were selected for this phase from the provided lists of recommended energy conservation measures for individual facilities included in the Ashrae Level II + Net Zero Energy Audit completed in 2022 by Bureau Veritas. Staff worked directly with the three facility managing departments to determine the framework for selection and evaluate recommended projects.

Phase 2 project selection again considered the timeline for implementation, the projected initial investment cost, interdepartmental considerations, and environmental savings. In this phase interdepartmental considerations included, planned/up-coming department projects that are scheduled to take place within the timeframe (equipment replacements for example), department goals and available resources, and on-going/long-term maintenance. While projects that can be completed within the corresponding departments existing budget are included as resources allowed, heavy emphasis was placed on projects that could be incorporated into or added independently as a Capital Improvement Request (CIP) for the 2024 year. The ratio of the individual projects projected initial investment costs to the environmental savings was the primary identification and prioritization consideration factor for project selection. Types of individual projects and the associated number of each type of project can be found in the table below.

Project Types	Count of Project Types
Total Count of Projects	

The Energy Audit Project Budget Surplus Request funds, which requested that the approximately \$70,000 surplus amount remaining from the completion of the energy audit be allocated for implementation of audit identified recommendations, will be utilized as a secondary consideration factor in this phase. Upon the completion of the CIP process, evaluation of the opportunities based on the outcome will take place and this mechanism will be applied as resources allow.