

Carbon Neutrality Task Force Meeting Minutes
Friday, January 21, 2022

Attendees: Cindy Paavola, Kathy Richards, Brandon Sager, Jim Thams, Sarah Mittlefehldt, Randy Klitzke, Bethany Beavers.

Absent: Mike Bath, Gavin Leach, Nicole Shoup, Jes Thompson.

1. Approval of Past Meeting Minutes
 - a. December 3, 2021-no corrections required.
 - b. Motion to approve minutes from December 3, 2021 was made by Cindy Paavola, seconded by Sarah Mittlefehldt. Motion carried.
2. Criteria for analyzing initiatives proposed for the Carbon Neutrality Plan were discussed and organized into the three categories below

Top Priorities

- a. Financial Viability
 - i. Consider Life Cycle Costs; Total Cost of Ownership
 - ii. Opportunity Cost
 - iii. Other Potential Financial Resources/Subsidies
- b. Tie to Academics
- c. Emissions Reduction Impact
- d. Measurability & Trackability
 - i. Probability of Success
 1. Behavioral Change/Extent of Campus Participation Required

Logistics

- a. Product Life Cycle/Proven Technology
- b. Maintenance Impact

Extra Benefits

- a. Local Economic Benefit
- b. Recruitment/Marketing Impact/Visibility
- c. Help Achieve Energy Independence
- d. Community engagement/social impact
- e. Things that are "distinctly Northern"

2. Overall goals of the Carbon Neutrality Plan were established.
 - Achieve carbon neutrality by 2050 in the most economical way possible.
 - Identify top opportunities for working toward carbon neutrality.
 - Provide opportunity for academics to be involved with initiatives.

- Develop authentic carbon neutrality plan with transparent measurement and reporting system.
3. Next Scheduled Meeting: February 4, 2022, 10 am include Campus Energy Master Plan consultant. Goals of plan will be shared with consultant.
 4. Future Agenda Items
 - a. Prioritize areas of focus based on cost and impact
 - b. Determine how progress will be measured for each goal
 - c. Experience exchange with potential local partners-City of Marquette, Marquette Board of Light and Power
 - d. Review of campus space use analysis process-Jim Thams
 - e. Review progress on assignments from Dec. 3rd meeting
 - i. University-owned Vehicles: Jim Thams and Mike Bath will provide inventory and annual fuel usage.
 - ii. University-owned Grounds Equipment: Jim Thams will provide inventory and annual fuel usage.
 - iii. Trees: Jim Thams will work with Sarah Mittelfeldt to have a student group/class inventory trees on university property via GIS app.

Areas of Focus for Sustainability Plan and Carbon Neutrality Plan

SUSTAINABILITY PLAN

Waste Minimization/Diversion

Recycling

Composting

City Water Use Reduction

Storm Water Diversion

Education & Awareness

Employee Educator Program

Promoting Bicycle Use

Purchasing Policies

Sustainability Curriculum

Research

Food & Dining

Green Fund Application Review

Wellbeing & Work

Assessing Diversity and Equity

Communication

Local Partnerships

CARBON NEUTRALITY PLAN

Carbon Emissions-*Need Greenhouse Gas Inventory*

Energy Efficiency/Conservation-Electric and Gas-*Part of CEMP Process*

Sourcing of Electricity-*Part of CEMP Process*

Natural Gas for Ripley Plant-*Part of CEMP Process*

Natural Gas-Heating for Other Buildings-*Part of CEMP Process*

Refrigerants-*Part of CEMP Process*

Renewable Energy-*Part of CEMP Process*

Renewable Energy Credits-*Part of CEMP Process*

Air Conditioning-*Part of CEMP Process*

Natural Gas for Cooking-*Impacted by CEMP Process*

University-owned Vehicles

University-owned Ground Equipment

Trees

Building Construction

Space Utilization

Communication

Local Partnerships

Faculty/Staff/Student Commuting