



Addendum #1

Carbon Neutrality Task Force

The NMU Carbon Neutrality Task Force was established in 2021 to actively pursue the goal of Northern becoming carbon neutral by 2050 or sooner. The group is part of the NMU Strategic Plan's "Collaborative Sustainability" initiative.

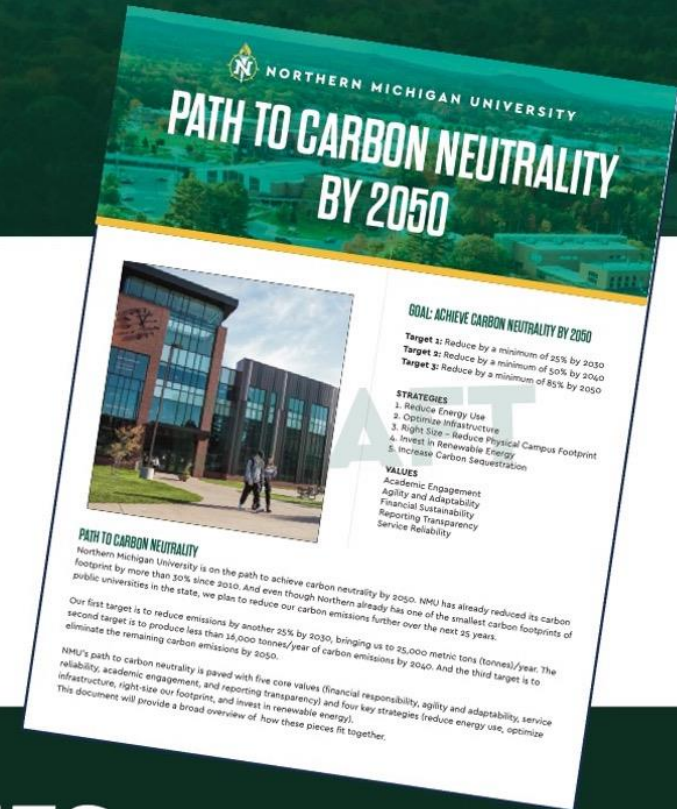
DRAFT CARBON NEUTRALITY PLAN

PATH TO CARBON NEUTRALITY

Target 1: Reduce by a minimum of 25% by 2030

Target 2: Reduce by a minimum of 50% by 2040

Target 3: Reduce by a minimum of 85% by 2050



STRATEGIES

Reduce Energy Use

Optimize Infrastructure

Right Size – Reduce Physical Campus Footprint

Invest in Renewable Energy

Increase Carbon Sequestration

VALUES

Academic Engagement

Agility and Adaptability

Financial Sustainability

Reporting Transparency

Service Reliability

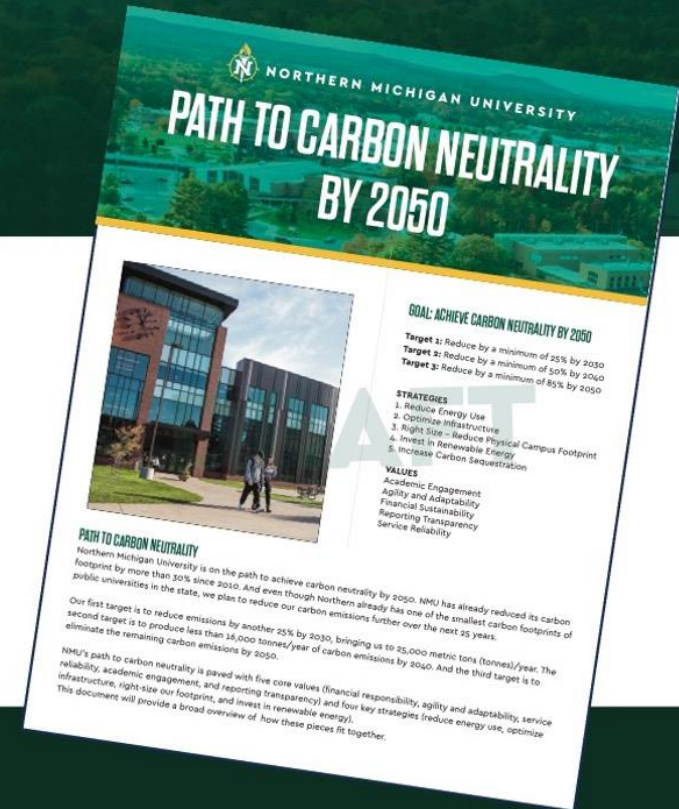
PATH TO CARBON NEUTRALITY

HIGHLIGHTS:

NMU has reduced emissions by 30% since 2010; and purchased 29% less electricity since 2011

NMU has one of the lowest carbon footprints of any public university in Michigan (32,000 metric tonnes/yr)

The plan includes a commitment to sustainable investing:



“NMU is making a commitment to not invest in any stand-alone fossil fuel investment endeavors. Currently, NMU does not actively invest in fossil fuels. Today, 90- 95% of NMU’s investments are not in fossil fuels and we will continue to make efforts to be as fossil-fuel-free in our overall portfolio by 2050 or sooner.”

PATH TO CARBON NEUTRALITY

TARGET I

REDUCE ENERGY USE

Convert 50% of lighting to LED by 2030

Transition 10-15% of vehicle fleet to hybrid/electric by 2030

OPTIMIZE INFRASTRUCTURE

Harden Hall Renovation - Upgrade mechanical & lighting systems

Replace Berry Event Center's ice & HVAC systems

RIGHT SIZE – REDUCE PHYSICAL CAMPUS FOOTPRINT

Demolish underutilized facilities with significant long-term maintenance costs

INVEST IN RENEWABLE ENERGY

Solar array on new WellBeing Center & other rooftop PV systems

Large scale solar partnership with MBLP

Develop plan to transition from natural gas to biomass at Ripley Plant

INCREASE CARBON SEQUESTRATION

Expand post-consumer composting systems

Expand no-mow program on main campus



PATH TO CARBON NEUTRALITY

TARGET 2

REDUCE ENERGY USE

Continue to convert lighting to LED – 100% by 2040

Continue energy conservation campaigns in offices, classrooms and housing on campus

OPTIMIZE INFRASTRUCTURE

System upgrades and/or renovations to improve efficiency in the PEIF and Forest Roberts Theater

INVEST IN RENEWABLE ENERGY

Large scale solar partnership with MBLP

Pursue additional rooftop PV systems on campus facilities

Evaluate economics for a combined heat & power (CHP) with renewable natural gas

PATH TO CARBON NEUTRALITY

TARGET 3

To reach the final target, NMU will need to assess the impact and cost of initiatives previously implemented. Where was the greatest carbon saving? Where was the greatest cost? Many opportunities for state and federal funding to support renewable energy and carbon neutrality infrastructure may influence the path chosen and the speed at which we meet the targets and our goal for 2050.

SUMMARY OF STAKEHOLDER FEEDBACK

INFORMATION SESSIONS

4 forums

3 class presentations

75+ stakeholders

FEEDBACK SURVEY

37 responses

80% closely reviewed the plan

20% also attended info session



The image shows a survey form from Northern Michigan University. At the top, the university's logo and name are displayed. Below this is a header image featuring a campus scene with the text 'PATH TO CARBON NEUTRALITY BY 2050'. The main text of the survey states: 'Northern Michigan University is on the path to achieving carbon neutrality by 2050. NMU has already reduced its carbon footprint by more than 30% since 2010. And even though Northern already has one of the smallest carbon footprints of public universities in the state, we plan to reduce our carbon emissions further over the next 25 years.' Below this text is a question: 'What questions or ideas do you have to achieve our carbon neutrality goals?' followed by a horizontal line for input. At the bottom, there is a prompt: 'Please select all that apply to you:' followed by two checkboxes: 'I checked out the carbon neutrality task force website' and 'I reviewed the draft carbon neutrality plan'.

NORTHERN MICHIGAN UNIVERSITY

NORTHERN MICHIGAN UNIVERSITY

**PATH TO CARBON NEUTRALITY
BY 2050**

Northern Michigan University is on the path to achieving carbon neutrality by 2050. NMU has already reduced its carbon footprint by more than 30% since 2010. And even though Northern already has one of the smallest carbon footprints of public universities in the state, we plan to reduce our carbon emissions further over the next 25 years.

What questions or ideas do you have to achieve our carbon neutrality goals?

Please select all that apply to you:

I checked out the carbon neutrality task force website

I reviewed the draft carbon neutrality plan

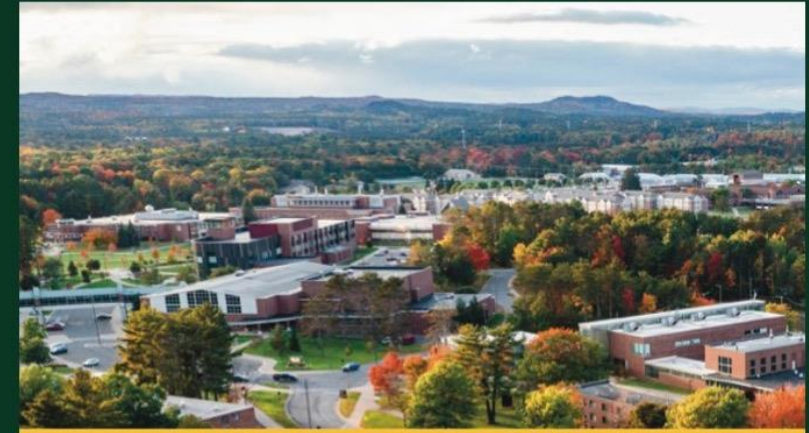
SUMMARY OF STAKEHOLDER FEEDBACK

KEY INSIGHTS

80% of respondents reported satisfaction with the draft plan

THREE MAIN THEMES

1. The need for a Scope 3 baseline assessment
2. Encourage deeper campus and community engagement with the action items in the plan
3. Requested more urgent action on divestment



SUMMARY OF CHANGES TO PLAN

Scope 3 Baseline

NMU will explore options for a Scope 3 baseline assessment in the next two years. The plan will be reviewed and updated every two years.

Campus & Community Engagement

NMU will provide funding and staffing for SHINE to facilitate and coordinate engagement.

Sustainable Investing Statement

The timeline for divestment will be updated after further discussion with the BOT.



PATH TO CARBON NEUTRALITY

Northern Michigan University is charting a path to achieve carbon neutrality by 2050. NMU has reduced its carbon footprint by more than 30% since 2010, and today we have one of the smallest carbon footprints of any public university in the state at 32,000 metric tons CO₂e per year (CO₂e means carbon dioxide equivalent, it is a measurement of all the different greenhouse gases into a comparable amount of CO₂ by impact). This plan is a map, providing guidance and direction to reduce our greenhouse gas emissions further over the next 25 years. We recognize that the path to carbon neutrality will require continued monitoring and modification, especially as our technology, economy, and policies change. This plan will be reviewed every two years and tactics will be updated as new information and opportunities become available.

Our first target is to reduce our current scope 1 and 2 emissions by 25%, bringing us to 25,000 metric tons of CO₂e in 2030. The second target is to produce less than 16,000 metric tons CO₂e by 2040. And the third target is to eliminate as much of the remaining greenhouse gas emissions as possible by 2050. Currently, this plan does not account for scope 3 emissions (indirect emissions related to activities upstream and downstream of the University), however, over the next two years the Carbon Neutrality Task Force will make a plan to gather data for a baseline scope 3 assessment and monitoring plan.

NMU's path to carbon neutrality is paved with five core values (academic engagement, agility and adaptability, financial sustainability, reporting transparency, and service reliability) and five key strategies (increase carbon sequestration, invest in renewable energy, optimize infrastructure, reduce energy use, and right-size our footprint). This

GOAL: ACHIEVE CARBON NEUTRALITY BY 2050

- Target 1:** Reduce by a minimum of 25% by 2030
- Target 2:** Reduce by a minimum of 50% by 2040
- Target 3:** Reduce by a minimum of 85% by 2050

STRATEGIES

1. Reduce Energy Use
2. Optimize Infrastructure
3. Right Size – Reduce Physical Campus Footprint
4. Invest in Renewable Energy
5. Increase Carbon Sequestration

VALUES

Academic Engagement
Agility and Adaptability
Financial Sustainability
Reporting Transparency
Service Reliability