

WAYNE STATE UNIVERSITY

SUSTAINABILITY STRATEGIC PLAN

2017 - 2022





The Engineering Technology Building at Wayne State University features a vertical wind turbine and solar array. The energy generated by the alternative energy system powers one of the building's computer labs.



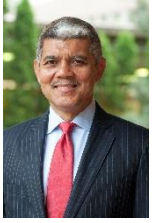
**WAYNE STATE
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Caisheng Wang, Associate Professor of Electrical and Computer Engineering, explains the system's operation to a green bicycle tour.

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A Letter from
President M. Roy Wilson

WAYNE STATE UNIVERSITY

Dear campus community,

With the release of the Distinctively Wayne State strategic plan, the university expressed its commitment to becoming a thriving institution known for academic and research excellence. Through our mission to create and advance knowledge, Wayne State also seeks to foster a community of support toward environmental sustainability.

Since 2007, the university's environmental initiatives have been guided by a sustainability plan that has led to progress in the areas of academic engagement, recycling, energy conservation and transportation. In that plan, we identified many objectives which led to substantial sustainability progress for Wayne State and its surrounding community.

Today, I am pleased to share that through the adoption of a new sustainability plan for 2017-2022, Wayne State University will make important strides that continue to guide campus sustainability efforts in academics, research, operations and campus life.

Since starting a campus recycling program nearly ten years ago, Wayne State has implemented a variety of initiatives that promote environmental stewardship and engagement throughout our campus community. Importantly, significant efforts around sustainability, energy conservation, waste reduction, alternative transportation, pedestrian initiatives, procurement, food systems and water quality now extend throughout campus.

As you will read in this plan, our dedicated faculty, staff and student leaders have launched various initiatives designed to advance knowledge, raise awareness and change behavior as it relates to our impact on the environment. Wayne State will continue to be a good environmental steward as we develop leaders and a talent pool that will help ensure the world's resources are sustainable for generations to come. The 2017-2022 Sustainability Plan will help guide our campus actions to achieve this end.

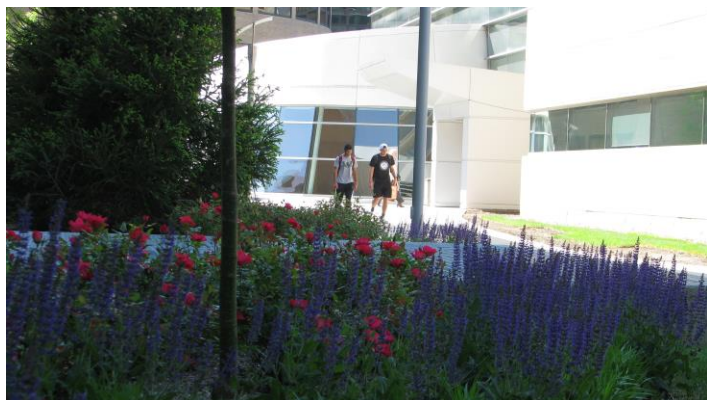
Sincerely,

M. Roy Wilson
President, Wayne State University

WAYNE STATE UNIVERSITY

SUSTAINABILITY STRATEGIC PLAN

This Sustainability Strategic Plan supports the directives of “Distinctively Wayne State” which guides the institution to academic and research excellence through 2021. The sustainability plan, developed through the efforts of the Office of Campus Sustainability and President’s Standing Committee on Environmental Initiatives, embodies the values that will guide Wayne State on its journey to becoming a pre-eminent public, urban research university. Integrity, responsibility and collaboration must be at the forefront of the institution’s sustainability initiatives to help ensure all students realize success and flourish from the opportunities on a Wayne State University campus that is environmentally sustainable.



Sustainability Vision

Wayne State University will be a leader among urban research universities in research, education, information, operations and activities related to environmental, social, and economic sustainability.

Sustainability Mission

The Office of Campus Sustainability, campus stakeholders, and community partners collectively undertake the implementation of environmental excellence within facility operations, design and construction, innovation, scholarly activities, campus programs, community and K-12 outreach, as well as other initiatives serving the campus community.



STUDENT SENATE
2015-16 Academic Year

A resolution of Student Senate support of the Sustainability Strategic Plan

Presented on 2/18/2016
Adopted on 2/18/2016

Sponsor: William Alexander & Tarek Bazzi & Christopher Gregory
Co-sponsors:

WHEREAS, The University Office of Campus Sustainability shall establish eco-friendly initiatives set around campus to increase Wayne State University's role as a leader in urban research universities; **AND**

WHEREAS, The danger to student populations on university campuses is a climate of real environmental concerns, lack of culture, and ignorance that their inertness – that is, the fact that their inaction to practice sustainability on campus becomes their standard and inevitably follows them after higher education; **AND**

WHEREAS, The resulting system leaves many students feeling alienated from practices other universities conduct; **AND**

WHEREAS, The absence of the green initiatives on campus, as well as the compounded effects of lacking resources can be mitigated by the establishment of strategically-located Green Resource Centers. Such Centers will enable the university to address the following needs and concerns:

- Creation of campus wide waste reduction spaces for all students, staff, faculty, and community members
- Development of more advanced initiatives, such as academic programs, community volunteer events, web-based resources, peer support and counseling groups, community outreach programs, and environmental work opportunities
- Continuous on-campus support for eco-friendly infrastructure and efforts: including reduction and reuse of materials, energy reduction programs, alternative transportation, food waste reduction, tools for sustainability education, and investment in infrastructure; **AND**



STUDENT SENATE
2015-16 Academic Year


WHEREAS, These needs and concerns can only be met by the Office of Campus Sustainability that specifically targets to handle eco-friendly matters, as opposed to the utilization of third party vendors; **AND**

WHEREAS, The very aim of such green efforts is not to encourage excessive spending, but rather to institutionalize a climate of transparency, social stewardship, education, and the maximization of tangible outcomes from a position of visibility within the broader community; **AND**


WHEREAS, The mere presence of more sustainability initiatives and infrastructure is essential to begin to address the lacking student engagement in sustainability practices;

NOW THEREFORE BE IT RESOLVED, the Assembly of the Wayne State University Student Senate highly encourages Wayne State University to adopt and support the implementation of the Sustainability Strategic Plan;

AND FINALLY BE IT ORDERED, the Wayne State University Student Senate will circulate this resolution to all relevant outlets, including the University President, University Vice Presidents, and University administration/officials.


William Alexander
President


Tarek Bazzi
Vice President

Compliments of

Student Senate
studentsenate.wayne.edu

WAYNE STATE UNIVERSITY

SUSTAINABILITY STRATEGIC PLAN

Overview

Founded in 1868, Wayne State University is a nationally recognized metropolitan research institution offering more than 370 academic programs through 13 schools and colleges to nearly 28,000 students. Wayne State's main campus in Midtown Detroit comprises over 100 buildings on over 200 acres; its six extension centers offer higher education to students throughout Southeast Michigan.

Wayne State is dedicated to preparing students to excel by combining the academic excellence of a major research university with the practical experience of an institution that by its history, location and diversity represents a microcosm of the world we live in.

Mission

Wayne State's mission is to create and advance knowledge, prepare a diverse student body to thrive, and positively impact local and global communities.

Vision

Wayne State University will be a pre-eminent, public, urban research university known for academic and research excellence, success across a diverse student body, and meaningful engagement in its urban community.

WAYNE STATE UNIVERSITY

SUSTAINABILITY STRATEGIC PLAN

Wayne State University's Strategic Focus Areas

Student Success

Teaching Excellence

Research

Diversity and Inclusion

Entrepreneurship

Financial Sustainability and Operational Excellence

Community Engagement

WAYNE STATE UNIVERSITY

SUSTAINABILITY STRATEGIC PLAN

Values

Collaboration – Integrity – Innovation – Excellence – Diversity and Inclusion

The institution's guiding values identified in the strategic plan meld the campus community together across all disciplines, cultures, and objectives. Working within these values, the development of this plan incorporated the following:

- Sustainability decision-making, operations, and outcomes should be transparent to the University community;
- Work responsibly to ensure environmental, economic, and social stewardship of Wayne State University activities;
- Strive toward the intersection of research, education and campus operations;
- Embrace and promote sustainable waste reduction and conservation techniques in all aspects of the University function;
- Embrace the University's strategic planning focus areas in working with the campus community on sustainability initiatives;
- Develop sustainability programming for the campus community that includes tangible outcomes based on metrics that include data collection, analysis and life-cycle thinking;
- WSU sustainability initiatives serve as a resource for the surrounding community and urban communities as a whole;
- And, promote environmental literacy to the campus community in all aspects of campus life.

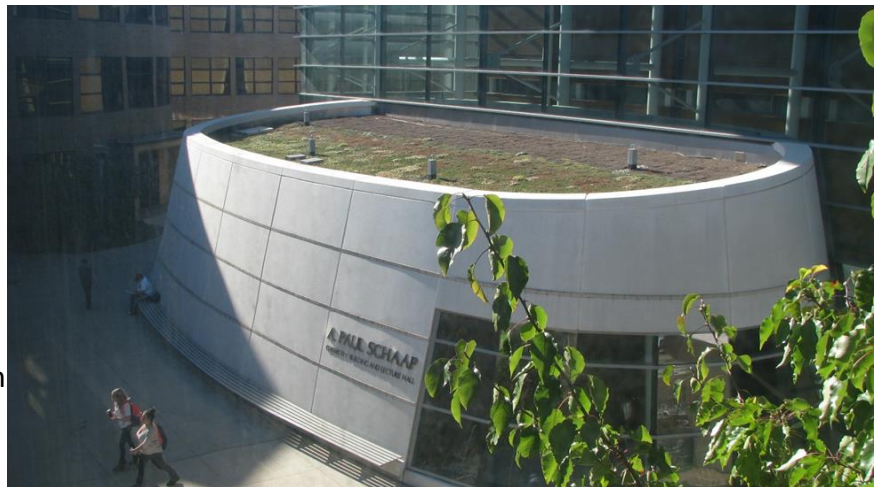
WAYNE STATE UNIVERSITY

SUSTAINABILITY STRATEGIC PLAN

Highlights

2007

- First, WSU Sustainability Plan outlining environmental actions leading to a green campus
- Environmental Initiatives Committee assembled to have oversight of green projects and activities on campus



2008

- New, campus-wide recycling began to capture paper, cardboard, plastics, and metal containers
- The Wayne State Farmers Market opened to offer the University community locally-grown produce, fresh baked goods, and natural food products in a lively, social environment
- Campus gardens installed allowing the University community to grow fruits and vegetables

2009

- University payroll established paperless operations saving costs and aiding the environment
- Campus shuttle service takes riders between the Main Campus and Medical Campus
- A Sustainability Certificate is offered by the College of Engineering

2010

- A solar array and wind turbine installation on the roof of Engineering Technology Building
- Electric service vehicles are used by Facilities Planning and Management in campus operations
- First, electronic waste (E-waste) collection (held annually)
- Urban Watershed Environmental Research Group (UWERG, a multi-disciplinary water research group)

2011

- Office of Campus Sustainability established to move the University's green initiatives forward
- Water @ Wayne seminar series features discussions by researchers studying water issues
- Green cleaning policy sets guidelines for environmentally-friendly cleaning products and equipment
- First, green roof built on A. Paul Schaap Chemistry Building

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SUSTAINABILITY STRATEGIC PLAN

Highlights

2012

- First, LEED Silver certified building (Marvin I. Danto Engineering Design Center) awarded
- The Green Ride (sustainability bike tour, held annually) made its first trip exploring city sites
- US Green Building Council Students, student organization established on campus
- Solar Compactors placed around campus for waste and recycling

2013

- Hydration Stations installed around campus to facilitate wide-spread usage of refillable water bottles
- Summer boiler shut down program saves the university costs related to less energy consumption
- Sustainability @ Wayne seminar series features researchers in sustainability related fields
- Toner Cartridge Recycling allows departments to recycle used printer cartridges for remanufacturing
- Cell phone recycling program keeps mobile devices out of the waste

2014

- Lighting Retrofit – LED lighting installation replaces older, less efficient fixtures around campus
- Second, LEED Silver certified building (Mazurek Education Commons) awarded

2015

- Warrior Exchange developed to give the campus a web-based classified section to facilitate reuse of campus property
- First, Baroudeur Cycling Event to raise money for student scholarships.
- A scrap metal recycling program captures ferrous and non-ferrous metals from the campus waste stream
- First, LEED Gold certified building (Advanced Technology Education Center, ATEC) awarded
- Third, LEED Silver certified building (A. Paul Schaap Chemistry Building) awarded

2016

- Second, LEED Gold certified building (Integrated Biological Sciences Building)
- Collaboration among seven student groups to promote waste reduction and recycling

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SUSTAINABILITY STRATEGIC PLAN

SCOT Analysis

Strengths, Challenges, Opportunities, and Threats

SCOT is an analysis tool used to assess Wayne State University's sustainability program, establish objectives, and identify obstacles inhibiting achievement of desired results.

Strengths

Leadership

Wayne State's sustainability effort was given direction by the development of Distinctively Wayne State strategic planning led by administration and multi-disciplinary stakeholders.

Vision

Sustainability stakeholders have worked to set a course for the institution's current and future environmental stewardship efforts.

Location

The University has many strategic advantages including its location in Midtown Detroit, an area burgeoning with economic development. The institution has substantial real estate holdings along Woodward Avenue which is the location of the M-1 rail system. In addition, its location within the Great Lakes basin places Wayne State in the heart of a region containing 22 percent of the world's fresh surface water.

Sustainability Office with Dedicated Staff

The Office of Campus Sustainability is charged with heading up the University's sustainability initiatives as part of Facilities Planning and Management.

Activities

There are existing sustainability activities that offer a base upon which to build this plan's objectives.

Challenges

Funding

A financial commitment to sustainability initiatives from University leadership.

Commuter Campus

The large number of commuters, who have multiple responsibilities outside of their education, hinders those students' engagement in campus activities.

Collaboration

University silos lower collaboration resulting in a system and incentives that do not align with university goals.

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SUSTAINABILITY STRATEGIC PLAN

SCOT Analysis

Strengths, Challenges, Opportunities, and Threats

Opportunities

Growth

The current level of sustainability engagement on campus allows room for improvement.

Interest

There is significant interest among stakeholders in working on sustainability initiatives, academics, and research.

Collaboration

Collaboration between academics, research, and operations to enhance student opportunities for learning.

Threats

Limited Resources

Limited funding for sustainability initiatives poses a danger to effective implementation.

Politics

Political barriers leading to scarce resources for higher education hinder support for sustainability initiatives.

Value

A value disparity based on low environmental literacy and priority that negatively impact sustainability initiatives.

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SUSTAINABILITY STRATEGIC PLAN

Sustainability Goals— 2017 thru 2022

The Strategic Plan for the Office of Campus Sustainability provides a framework that guides Wayne State University's environmental initiatives. This document represents the vision and mission of the Wayne State Strategic Plan encompassing energy conservation, waste reduction, transportation, and food systems. The six goals below build upon the University's strategic planning commitment to be an institution known for academic and research excellence.

ONE Establish a campus-wide waste reduction initiative that encompasses reduction and reuse of materials while increasing the diversion rate to 60% of recyclables kept out of traditional waste solutions by 2022. Establish environmentally-friendly purchasing policies, procedures, and end-of-life processes.

Zero Waste

TWO Reduce greenhouse gas emissions from Wayne State University by 25% below 2014 average levels by 2022. Establish a multi-pronged plan for energy innovation, energy conservation measures, alternative energy and reducing the University's carbon footprint.

GHG Emissions

THREE Increase programs and opportunities of awareness related to alternative transportation options that encourage use of energy efficient vehicles, reduce vehicle usage, emissions, and expand awareness of impacts related to transportation.

Alternative Transportation

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SUSTAINABILITY STRATEGIC PLAN

Sustainability Goals— 2017 thru 2022

FOUR Increase sustainable food practices of campus foodservice operations through local sourcing of whole, fresh, and/or organic foods; achieve reductions in food and food-related energy waste; and increase student opportunities to learn about food, nutrition, and sustainability and their intersection.

Sustainable Food

FIVE Develop and implement funding tools that directly support sustainability initiatives.

Funding

SIX Build upon Wayne State University's core mission to create knowledge and prepare a diverse student body by using the campus as a learning laboratory for sustainability while integrating environmentally-based learning into a broader cross section of the academic curriculum.

Academics, Research & Engagement

WAYNE STATE UNIVERSITY

SUSTAINABILITY STRATEGIC PLAN

One Zero Waste

Establish a campus-wide waste reduction initiative that seeks to reduce and reuse materials while increasing the recycling diversion rate to 60% of recyclables being kept out of traditional waste solutions by 2022. Additionally, establish environmentally-friendly purchasing policies, procedures, and end-of-life processes.

1. Establish campus waste policy related to all campus waste streams.
2. Initiate an on-campus or near-campus recycling facility that processes, prepares, and sells recyclables for remanufacturing.
3. Develop opportunities for the WSU community to actively participate in campus waste reduction initiatives.
4. Establish programming that moves the campus waste stream toward zero-waste.
5. Work with Procurement and Strategic Sourcing to reduce and eliminate non-recyclable packaging from campus purchases with increased use of recyclable and bio-degradable materials within campus operations and academics.
6. Create a waste stream checklist that will increase understanding of the processes involving reduce, reuse, and recycle; enhance green literacy around personal waste practices; and help raise the diversion rate of campus recyclables.
7. Increase the number of recycling bins around public trash receptacles as well as the number of bins in the residence halls, dining halls, and in office areas around campus community.
8. Assemble green team to engage campus community participation in recycling and waste reduction activities.
9. Continue to support and expand the University's electronic waste collection to help improve the campus diversion rate.
10. Improve campus recycling signage to increase visibility, participation, and understanding.
11. Develop and implement a food scrap collection in dining services as part of a composting program.

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SUSTAINABILITY STRATEGIC PLAN

Two

Greenhouse Gas Emissions / Carbon Footprint

Reduce greenhouse gas emissions from Wayne State University by 25% below 2014 average levels by 2022. Establish a multi-pronged plan to achieve efficiency in utility service use, energy innovation, energy conservation measures, alternative energy and reducing the University's carbon footprint.

1. Identify, assess and implement energy conservation measures, as relevant, throughout all campus facilities.
2. Examine opportunities for retrofit and re-commission of existing buildings with new technologies in alignment with sustainability goals.
3. Continue designing future building projects to achieve LEED certification maximizing energy efficiency and renewable energy sources while minimizing water consumption and wastewater production.
4. Plan and build demonstration gardens with native plantings for educational, beautification, and leisure purposes.
5. Explore opportunities for a reduction in operation of grounds equipment related to grass mowing and related maintenance.
6. Target, plan, and implement the reduction of potable water use for campus irrigation.
7. Develop a stormwater/water management/water recapture plan to establish targets and guide a reduction in campus runoff.
8. Assess feasibility and implement renewable energy use in new design and construction projects.
9. Reduce the use of toxic materials in landscaping, maintenance, and other operational activities on campus.

Three

Alternative Transportation

Increase programs and opportunities of awareness related to alternative transportation options that encourage use of energy efficient vehicles, reduce vehicle usage, emissions, and expand awareness of impacts related to transportation.

1. Implement ride-share, vanpool and incentive activities that lead to a reduction of vehicles being driven to and from campus.
2. Develop and post campus informational signage with user-friendly messaging regarding public space and programs that encourage walking, jogging, biking, and other transportation alternatives to automobiles.
3. Continue connecting the University campus with community schools, nearby institutions and organizations to increase awareness of alternative and public transportation options.
4. Assess feasibility of providing transportation service and increase awareness of transportation options from main campus to satellite campus locations.
5. Develop on-going promotions for the campus shuttle, charging stations and ZipCar vehicles located in campus parking facilities.
6. Establish, post, and promote protocols for charging station parking locations.
7. Institute on-campus programs, activities, and infrastructure that support and encourage growth within the bicycle community.
8. Continue and develop annual campus programming that encourages awareness, exposure, and facilitates use of alternative transportation.

Four

Sustainable Food

Increase sustainable food practices of campus foodservice operations through local sourcing of whole, fresh, and/or organic foods; achieve reductions in food and food-related energy waste; and increase student opportunities to learn about food, nutrition, and sustainability and their intersection.

1. Establish and adopt a framework for the University to provide supportive infrastructure and resources to the Wayne State Farmers Market that supports its mission, values and ensures operational efficiency.
2. Work with the campus dining vendor to establish a process that moves its operation toward sustainable and local food purchases through partnerships with local/regional farmers as well as the Wayne State Farmers Market. Explore and initiate opportunities to support entrepreneurship within the campus community through local food partnerships.
3. Include the campus gardens in the University's Master Plan landscape maps for aesthetic and educational purposes. Engage students in opportunities to provide academic learnings as well as experiential opportunities around production, business, and politics of urban agriculture and the food system.
4. Establish and support programs that reduce the University's food waste stream through donations of excess prepared foods, composting pre-prepared produce scraps, and dining behavioral activities.
5. Cultivate and implement campus and community collaborations that enhance understanding of culture, history, diversity, environmental justice, and social justice related to the food system.
6. Increase food offerings in campus dining facilities that are representative of our diverse campus community.

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SUSTAINABILITY STRATEGIC PLAN

Five

Funding

Develop and implement funding tools that directly support sustainability initiatives.

1. Develop a Green Fund that will support sustainability initiatives by faculty, staff, and students in education, operational sustainability, and research.
2. Continue work to develop established funding that supports the university's sustainability initiatives.
3. Explore alternative funding sources to support energy conservation measures, stormwater management, waste reduction, and renewable energy projects across campus facilities.
4. Implement methods for on-going funding for student and staff positions that support the activities of the Office of Campus Sustainability and Energy Curtailment Committee.

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SUSTAINABILITY STRATEGIC PLAN

Six

Academics, Research, & Engagement

Build upon Wayne State University's core mission to create knowledge and prepare a diverse student body by using the campus as a learning laboratory for sustainability while integrating sustainability learning into a broader cross section of the academic curriculum.

1. Engage Wayne State Students, surrounding community, and students in K-12 schools in activities that promote understanding and action in issues related to environmental sustainability.
2. Establish a sustainability learning community that increases student understanding in various areas of protecting the environment.
3. Work to expand teaching and research programs that focus on sustainability through related undergraduate and graduate courses, research, and interdisciplinary collaborations that lead to increased curriculum offerings, degree programs, practical opportunities and exposure to Detroit-area K-12 schools.
4. Develop sustainability seminars that advance learning, application and community engagement around environmental initiatives.
5. Implement entrepreneurial campus programs that support and focus on sustainability (economic, social, and environmental) and offer assistance for the campus community.
6. Continue to develop multi-disciplinary campus collaborations around sustainability initiatives.
7. Engage and collaborate with campus stakeholders to continue working toward improvement of existing sustainability initiatives.
8. Develop and disseminate a sustainability checklist that covers actions that individuals can implement on campus and at home to have a positive impact on the environment.
9. Explore and maintain community engagement around environmental sustainability initiatives in alignment with the University's strategic plan.

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SUSTAINABILITY STRATEGIC PLAN

Six

Academics, Research, & Engagement

10. Investigate and actively engage in opportunities to foster environmental stewardship of natural resources.
11. Seek innovative technologies to implement as demonstration projects, energy conservation measures, or sustainability initiatives on campus.
12. Maintain memberships in professional organizations that will help enhance the University's sustainability initiatives.

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SUSTAINABILITY STRATEGIC PLAN

Zero Waste

Establish a campus-wide waste reduction initiative that seeks to reduce and reuse materials while increasing the recycling diversion rate to 60% of recyclables being kept out of traditional waste solutions by 2022. Additionally, establish environmentally-friendly purchasing policies, procedures, and end-of-life processes.

Implementation – Zero Waste		
1-year	3-years	5-years

- Establish campus waste policy related to all campus waste streams.
- Develop opportunities for the WSU community to actively participate in campus waste reduction initiatives.
- Create a waste stream checklist that will increase understanding of the processes involving reduce, reuse, and recycle; enhance green literacy around personal waste practices; and help raise the diversion rate of campus recyclables.
- Continue to support and expand the University’s electronic waste collection to help improve the campus diversion rate.

Implementation – Zero Waste		
1-year	3-years	5-years

- Work with Procurement and Strategic Sourcing to reduce and eliminate non-recyclable packaging from campus purchases with increased use of recyclable and bio-degradable materials within campus operations and academics.
- Assemble green team to engage campus community participation in recycling and waste reduction activities.
- Increase the number of recycling bins around public trash receptacles as well as the number of bins in the residence halls, dining halls, and in office areas around campus community.

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SUSTAINABILITY STRATEGIC PLAN

Zero Waste

Implementation – Zero Waste		
1-year	3-years	5-years

- Initiate an on-campus or near-campus recycling facility that processes, prepares, and sells recyclables for remanufacturing.
- Establish programming that moves the campus waste stream toward an increased diversion rate.

SUSTAINABILITY STRATEGIC PLAN

Greenhouse Gas Emissions / Carbon Footprint

Reduce greenhouse gas emissions from Wayne State University by 25% below 2014 average levels by 2022. Establish a multi-pronged plan to achieve efficiency in utility service use, energy innovation, energy conservation measures, alternative energy and reducing the University’s carbon footprint.

Implementation – Greenhouse Gas Emissions / Carbon Footprint		
1-year	3-years	5-years

- Identify, assess and implement energy conservation measures, as relevant, throughout all campus facilities.
- Continue designing future building projects to achieve LEED certification maximizing energy efficiency and renewable energy sources while minimizing water consumption and wastewater production.
- Assess feasibility and implement renewable energy use in new design and construction projects.

Implementation – Greenhouse Gas Emissions / Carbon Footprint		
1-year	3-years	5-years

- Examine opportunities for retrofit and re-commission of existing buildings with new technologies in alignment with sustainability goals.
- Plan and build demonstration gardens with native plantings for educational, beautification, and leisure purposes.
- Explore and present opportunities for a reduction in the operation of grounds equipment related to grass mowing and related maintenance while examining synergies with stormwater management applications.
- Target, plan, and implement the reduction of potable water use for campus irrigation.
- Develop and implement a stormwater management plan for the university.

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SUSTAINABILITY STRATEGIC PLAN

Greenhouse Gas Emissions / Carbon Footprint

Implementation – Greenhouse Gas Emissions / Carbon Footprint		
1-year	3-years	5-years

- Develop a stormwater/water management/water recapture plan to establish targets and guide a reduction in campus runoff.
- Reduce the use of toxic materials in landscaping, maintenance, and other operational activities on campus.

SUSTAINABILITY STRATEGIC PLAN

Alternative Transportation

Increase programs and opportunities of awareness related to alternative transportation options that encourage use of energy efficient vehicles, reduce vehicle usage, emissions, and expand awareness of impacts related to transportation.

Implementation – Alternative Transportation		
1-year	3-years	5-years

- Establish a WSU bicycle club that promotes cycling as an efficient, healthy, and sustainable transportation choice through support and implementation of commuting, organizational and leisure initiatives.
- Develop and post campus informational signage with user-friendly messaging regarding public space and programs that encourage walking, jogging, biking, and other transportation alternatives to automobiles.
- Continue connecting the University campus with community schools, nearby institutions and organizations to increase awareness of alternative and public transportation options.
- Institute on-campus programs, activities, and infrastructure that support and encourage growth within the bicycle community.
- Continue and develop annual campus programming that encourages awareness, exposure, and facilitates use of alternative transportation.

Implementation – Alternative Transportation		
1-year	3-years	5-years

- Develop on-going promotions for the campus shuttle, charging stations and ZipCar vehicles located in campus parking facilities while connecting their use with nearby transportation infrastructure.
- Implement ride-share, vanpool and incentive activities that lead to a reduction of vehicles being driven to and from campus.
- Establish, post, and promote protocols for charging station parking locations.

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Alternative Transportation

Implementation – Alternative Transportation		
1-year	3-years	5-years

- Assess feasibility of providing transportation service and increase awareness of transportation options from main campus to satellite campus locations.

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Sustainable Food

Increase sustainable food practices of campus foodservice operations through local sourcing of whole, fresh, and/or organic foods; achieve reductions in food and food-related energy waste; and increase student opportunities to learn about food, nutrition, and sustainability and their intersection.

Implementation – Sustainable Food		
1-year	3-years	5-years

- Work with the campus dining vendor to establish a process that moves its operation toward sustainable and local food purchases through partnerships with local/regional farmers.
- Include the campus gardens in the University’s Master Plan landscape maps for aesthetic and educational purposes.

Implementation – Sustainable Food		
1-year	3-years	5-years

- Establish and adopt a framework for the University to provide supportive infrastructure and resources to the Wayne State Farmers Market that supports its mission, values and ensures operational efficiency.
- Implement campus/community initiatives that enhance understanding, action, and progress towards environmental and social justice related to the food system.

Implementation – Sustainable Food		
1-year	3-years	5-years

- Establish and support programs that reduce the University’s food waste stream through donations of excess prepared foods, composting pre-prepared produce scraps, and dining behavioral activities.
- Increase food offerings in campus dining facilities that are representative of our diverse campus community.

SUSTAINABILITY STRATEGIC PLAN

Sustainability Funding

Develop and implement funding tools that directly support sustainability initiatives.

Implementation – Sustainability Funding		
1-year	3-years	5-years

- Continue work to develop and implement elements of the sustainability financial plan to establish funding that supports the university’s sustainability initiatives.

Implementation – Sustainability Funding		
1-year	3-years	5-years

- Explore alternative funding sources to support energy conservation measures, stormwater management, waste reduction, and renewable energy projects across campus facilities.
- Implement methods for on-going funding for student and staff positions that support the activities of the Office of Campus Sustainability and Energy Curtailment Committee.

Implementation – Sustainability Funding		
1-year	3-years	5-years

- Develop a Green Fund that will support sustainability initiatives by faculty, staff, and students in education, operational sustainability, and research.

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SUSTAINABILITY STRATEGIC PLAN

Academics, Research, & Engagement

Build upon Wayne State University's core mission to create knowledge and prepare a diverse student body by using the campus as a learning laboratory for sustainability while integrating sustainability learning into a broader cross section of the academic curriculum.

Implementation – Academics, Research, & Engagement		
1-year	3-years	5-years

- Engage Wayne State Students, surrounding community, and students in K-12 schools in activities that promote understanding and action in issues related to environmental sustainability.
- Establish a sustainability learning community that increases student understanding in various areas of protecting the environment.
- Develop sustainability seminars that advance learning, application and community engagement around environmental initiatives.
- Engage and collaborate with campus stakeholders to continue working toward improvement of existing sustainability initiatives.
- Develop and disseminate a sustainability checklist that covers actions that individuals can implement on campus and at home to have a positive impact on the environment.
- Investigate and actively engage in opportunities to foster environmental stewardship of natural resources.
- Maintain memberships in professional organizations that will help enhance the University's sustainability initiatives.

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SUSTAINABILITY STRATEGIC PLAN

Academics, Research, & Engagement

Build upon Wayne State University’s core mission to create knowledge and prepare a diverse student body by using the campus as a learning laboratory for sustainability while integrating sustainability learning into a broader cross section of the academic curriculum.

Implementation – Academics, Research, & Engagement		
1-year	3-years	5-years

- Continue to develop multi-disciplinary campus collaborations around sustainability initiatives.
- Explore, implement, and maintain community engagement around environmental sustainability initiatives in alignment with the University’s strategic plan.
- Seek innovative technologies to implement as demonstration projects, energy conservation measures, or sustainability initiatives on campus.

Implementation – Academics, Research, & Engagement		
1-year	3-years	5-years

- Work to expand teaching and research programs that focus on sustainability through related undergraduate and graduate courses, research, and interdisciplinary collaborations that lead to increased curriculum offerings, degree programs, practical opportunities and exposure to Detroit-area K-12 schools.
- Implement entrepreneurial campus programs that support and focus on sustainability (economic, social, and environmental) and offer assistance for the campus community.

Financial Plan and Resources

The successful implementation of the WSU sustainability plan will require the allocation internal funding sources and obtaining external funding to support all of its objectives. In alignment with the WSU strategic plan, implementing the objective's outlined herein will require a financial commitment from stakeholders in and around the campus community. In doing so, this plan calls for collaborative efforts between WSU administrative, academic, research, and operational areas as well as external stakeholders to enhance opportunities for outside public and private funding.

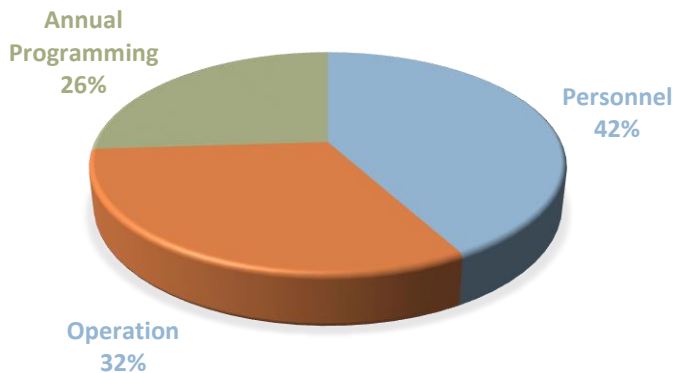
The proposed funding sources listed below provide options that will support the initiatives identified in the WSU Sustainability plan:

- Operating funds from WSU organizational units – The initiatives contained in the sustainability plan forward university-wide and unit objectives within operations, academic, and research functions. Proportioned funding obtained from these areas would be used to support initiatives within the plan.
- Organizational savings - Savings realized through operational efficiencies, source reduction efforts, and recycling efforts provide funding sources for sustainability initiatives.
- Capital funds – Implementation of major construction projects provide funding opportunities to advance WSU's sustainability initiatives through the capital development process.
- Grants – Various WSU sustainability initiatives are able to obtain external funding through public and private grants. The Office of Campus Sustainability would lead and/or partner with WSU groups to develop grant proposals that support sustainability initiatives.
- Gifts – target development opportunities through annual giving that align with sustainability initiatives. Annual gifts from alumni, students, parents and friends can be put to immediate use in support of sustainability initiatives at Wayne State University.

Implementation Cost

To advance the WSU Sustainability Strategic Plan, the Office of Campus Sustainability requests funding in the amount of \$132,000 to be spread over the next three years to implement the initiatives identified as part of this plan. During this period, the elements within the financial plan will be implemented to support the continuance of sustainability activities and programming. Additionally, at the conclusion of this three-year implementation phase, it is requested that permanent WSU funding be established as indicated in the financial plan of this document to support the continued growth and expansion of the WSU sustainability initiatives.

ANNUAL SUSTAINABILITY COST BREAKDOWN



WAYNE STATE UNIVERSITY

SUSTAINABILITY STRATEGIC PLAN

Contributing Organizations

- ❖ Facilities Planning and Management
- ❖ Office of Campus Sustainability
- ❖ Energy Curtailment Committee
- ❖ President's Standing Committee on Environmental Initiatives
- ❖ SEED Wayne
- ❖ Office of Economic Development
- ❖ Development and Alumni Affairs
- ❖ Urban Watershed Environmental Research Group (UWERG)
- ❖ Student Senate

President's Standing Committee on Environmental Initiatives

- ❖ Barry Johnson - Interim-Committee Chair, Adjunct Instructor of History
- ❖ Larry Fodor - Director, Energy and Utility, FPM
- ❖ Kami Pothukuchi – Associate Professor, Urban Studies and Planning
- ❖ Jon Frederick - Director, Parking and Transportation
- ❖ Michelle Serreyn – Lab Coordinator, Biological Sciences
- ❖ Amal Rass - Student Senate
- ❖ Jaroslava Pallas – Intern, Office of Campus Sustainability
- ❖ Raven Wright – Student Representative
- ❖ Daryl Pierson - Sustainability Coordinator, Office of Campus Sustainability

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