

VILLAGE OF SHOREWOOD HILLS



SUSTAINABILITY PLAN 2020-2025

INTRODUCTION

The sustainability movement strives to create better places for living. The Village of Shorewood Hills (the “Village”) is a community that welcomes and embraces sustainability. Over the years, the Village has gone to great lengths to be environmentally responsible, implementing programs for recycling, rain gardens, tree maintenance, leaf collection, storm water management and many more, as described below. This Sustainability Plan (the “Plan”) takes these efforts one step further to provide guidance for current and future decisions of Village employees, Board of Trustees (“the Board”), and committees. This Plan attempts to lay out a series of goals and strategies that will help improve the Village’s overall environmental, economic, and social health now and for future generations.

What is sustainability?

This Plan defines “sustainability” as the ability to meet our needs without compromising the needs of future generations. Sustainability is often considered multi-faceted and can broadly incorporate environmental, economic, and social sustainability:

- **Environmental Sustainability:** Energy, Transportation, Waste, Land Use, Water, and Public Outreach and Education,
- **Economic Sustainability:** Economic Development and Workforce Development, and
- **Social Sustainability:** Affordable Housing, Diversity, Wellbeing, Education, Health, Arts, and Culture.

Doesn’t the Village already practice sustainability?

Sustainability has long been a core value of the Village. We are very proud of the efforts that the Village has taken over the years. A summary of past sustainability initiatives taken by the Village is attached as [Exhibit A](#). This Plan is meant to build upon and expand those efforts.

What is the scope of the Plan?

The Plan is a guidance document that focuses on certain overarching sustainability goals (e.g., Clean and Well-Managed Water) for the Village over the next five years and bridging into the next decade. It also identifies various strategies and actions that the Village *could* adopt over the next five years to create meaningful advances in sustainability in our community.

The Plan is not meant to be an all-inclusive plan. It does not address all possible sustainability actions that the Village could take into the future, nor does it preclude the Village from taking actions not described in the Plan. It is also important to note that this Plan *does not* obligate the Village to take any particular strategy or action identified.

Most of the goals identified in the Plan are related to environmental sustainability in order to align with resident interests that were reported as part of a Village Sustainability Survey (see below). Future versions of the Plan could incorporate sustainability initiatives that focus more on economic and social needs as well as environmental needs.

How should the Plan be used?

The Plan largely focuses on actions that the *municipality* (through the Village staff, Board, and committees) could take to:

- Raise sustainability awareness of Village staff, Board, and committees;
- Raise sustainability awareness of Village residents and businesses, support private sustainability initiatives, and promote public-private sustainability partnerships;
- Ensure that sustainability is being integrated into Village decision-making, including the budgetary process; and
- Expand the sustainability practices and policies implemented by the Village.

In order to track the Village's progress in achieving its sustainability goals, a "Sustainability Scorecard" is attached as Exhibit B. This scorecard should be filled out by Village staff and presented annually to the Board to help track the municipality's sustainability efforts.

While this Plan does not focus on sustainability actions that *individual residents* could take, sustainability initiatives adopted by individual residents are a critical piece of Village sustainability. The Village should encourage and educate residents on individual actions that residents could take to improve sustainability, including creating a webpage that provides pertinent recommendations and through newsletters. Additionally, a resident group, the "Shorewood Hills Green Team", has been formed to help address this critical area. The Shorewood Hills Green Team's role will be to (1) educate residents and businesses on actions they can take to increase sustainability in the Village, and (2) act as a bridge between the municipality and residents to help the municipality identify and implement sustainability actions and strategies of interest to residents. The Shorewood Hills Green Team will develop its own sustainability scorecard to help track resident sustainability efforts. More information about the Shorewood Hills Green Team can be found on its Facebook page: <https://www.facebook.com/groups/678371292584970/>.

How was the Plan created?

In 2017, the Village convened an Ad Hoc Sustainability Committee (the "Committee") to better understand residents' expectations for sustainability in the Village and to learn where to focus future sustainability efforts.

In 2018, the Committee sent an electronic Sustainability Survey to all residents and 188 responded with their views. Some of the highlights from the survey are as follows:

- Residents wanted the Village to practice more sustainability (94% of respondents)
- Residents wanted the Village to be a leader in sustainability
 - 42% of respondents would like the Village to be a regional model for sustainability; and
 - 39% would like to see the Village be a national model for sustainability
- Residents most commonly associated the term "sustainability" with the environmental sustainability (and not social or economic sustainability)
- Residents identified the following key areas for Village sustainability efforts:
 - Reducing use of phosphorus
 - Maintaining a healthy & diverse tree canopy
 - Increased access to renewable energy sources
 - Promoting increased recycling, and
 - Diverting organic waste from landfills through increased composting

In 2019, based on the results of the survey, the Committee created a draft of the Plan and a sustainability resolution ("Sustainability Resolution"). Input was then obtained from various Village committees, groups, and residents. The draft Plan and Sustainability Resolution were shared with all Village committees and the Garden Club for feedback. The Garden Club and all Village committees except the Pool, Services,

and Waterfront Committees provided feedback. Residents were then invited to three public meetings to learn about the Plan and Sustainability Resolution and give their feedback. Feedback from the committees, groups and residents was discussed by the Committee and incorporated in the Plan. On November 13, 2019, the Committee finalized the Plan and Sustainability Resolution and moved to submit the documents to the Board for approval.

On November 18, 2019, the Board approved the Plan and Sustainability Resolution. A copy of the Sustainability Resolution is attached as [Exhibit C](#).

THE PLAN

The Plan contains six sustainability goals for the next five years. These six goals generally correspond to the top key areas identified by residents in the survey or during feedback sessions. Each goal contains a brief description of the goal and identifies numerous strategies to help achieve that goal. The Committee deems each goal to be equally important for Village sustainability (i.e., the goals themselves are not prioritized). The six sustainability goals for the Village are:

- | | |
|--|-------------------------------------|
| 1. CLEAN AND WELL-MANAGED WATER | 4. CARBON NEUTRAL ENERGY USE |
| 2. THRIVING GREEN SPACES | 5. HEALTHY PEOPLE |
| 3. LESS WASTE | 6. CLIMATE RESILIENCY |

Despite the goals not being prioritized, the Committee recognizes that the Village must prioritize its sustainability efforts. To help with this endeavor, the Committee has identified the following areas that it believes the Village should prioritize over the next five-year period:

- 1. Each Village committee should identify a member as its “Sustainability Champion.” The Sustainability Champion will help lead the committee in considering how to integrate sustainability into committee decision-making.**
- 2. The Village should make significant steps towards becoming a carbon neutral municipality. As an essential step in this process, the Village should conduct a baseline analysis for 2020 to establish baseline carbon metrics for the Village to track and reduce its carbon score.**
- 3. The Village should reduce the amount of food waste through the establishment of a Village composting program, with the ultimate goal of coming close to becoming a zero-waste municipality.**
- 4. The Village should adopt measures to address small motor noise and air pollution. This could include encouraging a switch from gas to electric small engines, adoption of an anti-idling ordinance, and considering whether quiet hours should be expanded. Measures, which may be incorporated into ordinances, could impact not only the municipality and its residents, but also businesses working within the Village.**
- 5. The Village should continue to strive to reduce phosphorus and sodium chloride runoff. This includes enforcement of existing ordinances, adopting best practices, participating in adaptive management strategies, and integrating new technologies and equipment that will help accomplish our goals.**
- 6. The Village should adopt measures to reduce the use of harmful pesticides, herbicides, and fertilizers in the Village.**

7. The Village should invest in infrastructure that will help it become more resilient to climate change now and in the future, including infrastructure that addresses everyday and extreme flooding.

At the end of the 5-year period, the Village should assess its progress in meeting the sustainability goals and amend the Plan to address sustainability efforts beyond 2025.

Finally, education and outreach will be important for successfully implementing these goals. While education is not expressly identified for all strategies and actions listed below, the degree of education needed for successful implementation of a particular strategy should be considered in all cases. Every sustainability action approved by Village committees and/or the Board should include an education and outreach plan.

GOAL 1: CLEAN AND WELL-MANAGED WATER

Water is essential to human life and to ecosystems. It is also a powerful force that can wreak havoc on communities due to flooding associated with severe weather events, which are becoming the new norm in our changing climate. Clean, healthy, and well-managed water promotes safety and socio-economic development and is critical to the Village's identity as a municipality on a lake. The Village aims to become a leader in safeguarding and managing our water now and for future generations.

- ❖ **Strategy: Reduce phosphorus and total suspended solids runoff.** High phosphorus levels contribute to high algal growth resulting in toxic plumes in Lake Mendota under certain weather conditions. Phosphorus attaches to suspended solids (small particles that remain suspended in water) and flows directly into the lake with stormwater. Therefore, the Village must monitor phosphorus and manage stormwater in order to reduce toxic algae blooms in Lake Mendota.

This strategy could be accomplished by:

- Purchasing a vacuum street sweeper during the next sweeper replacement effort or collaborate with the City of Madison to pool funds towards the purchase of a shared vacuum sweeper.
- Continuing to explore opportunities for retrofitting stormwater Best Management Practices (BMPs) into areas throughout the Village, particularly in conjunction with street reconstruction projects.
- Educating and encouraging residents and lawn service providers to keep yard waste off streets and implementing ticketing system for repeated non-compliance.
- Educating residents on leaf and green waste composting and providing incentives (such as vouchers for composting materials) for residents to compost leaf and green waste on their own property.
- Continue to work with neighboring municipalities to address the issue from a regional perspective using adaptive management principles.

- ❖ **Strategy: Reduce the use of chemicals that pollute water.** Substances that we apply to our lawns, roadways, and other outdoor surfaces can eventually enter our water. The Village should make every effort to decrease the use of chemical pollutants in the Village for the short-term and long-term health of people and the environment.

This strategy could be accomplished by:

- Continuing to take a proactive and innovative approach to sodium chloride (road salt) reduction, such as instituting a total liquids application system.

- Reducing and/or banning in the Village the sale and use of certain pesticides and herbicides that are known to have harmful effects on humans, bees, and/or the environment. For example, banning the sale and use of lawn care products that contain (1) glyphosate, a known carcinogen found in Roundup, except for limited applications, such as invasive species control, and/or (2) neonicotinoids, a key factor in the decline of bees and can adversely impact human health.
- Controlling the use of commercial fertilizers by requiring a permit for their application, banning the use of commercial fertilizers in certain instances, or otherwise partnering with lawn care companies in a way to better manage chemical application in the Village.
- Minimizing the use of outdoor chemical cleaners.
- Educate Village residents about the Med-Drop box for unwanted prescription drugs.

- ❖ **Strategy: *Decrease quantity of everyday stormwater runoff.*** Acknowledging that public safety is a top priority for the Village, the Village should decrease the quantity of stormwater runoff, where possible, to protect our lakes, homes, and businesses.

This strategy could be accomplished by:

- Decreasing impermeable surfaces and increasing permeable (e.g. decrease exterior surface parking, increase parking structure density).
- Creating private-public partnerships for stormwater reduction initiatives.
- Providing incentives to businesses for implementing Best Management Practices that exceed regulations in reducing impervious surfaces and increasing infiltration.

- ❖ **Strategy: *Build and promote green infrastructure projects.*** Green infrastructure captures, absorbs, and/or stores rain and melting snow. It minimizes flooding and protects water quality by keeping nutrients and suspended solids on land and out of our waters. Green infrastructure includes rain barrels, rain gardens, permeable/porous pavement, green roofs, bioswales, stormwater trees, native landscaping, and soil amendments to build stronger plant root systems that resist erosion. The Village should continue to seek ways to restore and maintain natural landscapes and implement green infrastructure projects.

This strategy could be accomplished by:

- Providing residents with landscaping (green and hardscape) advice in concert with green infrastructure best practices.
- Offering stormwater utility fee credits or other incentives to developers and residents to instituting Best Management Practices such as rain barrels, rain gardens, and pervious paving that keeps runoff onsite.
- Creating private-public partnerships for green infrastructure installation and providing incentives to businesses for installing green infrastructure.
- Incorporating green infrastructure principles into all municipal planning, renovating, and building projects. For example, installing permeable pavement when pavement replacement is necessary, increasing parking structure density to decrease impermeable surface area on Village property, and improving pedestrian and bike routes and connections to public transportation to reduce the need for personal vehicle parking space.

- ❖ **Strategy: *Reduce water use at Village facilities and encourage residents and businesses to conserve water.*** Finding ways to conserve water is an important part of sustainable living. Saving

water can also save money in energy and utility bills. The Village should continue to find ways to reduce water usage in the Village.

This strategy could be accomplished by:

- Replacing old fixtures with water-efficient fixtures.
- Planting native and drought-tolerant plant species to minimize the need for supplemental irrigation.

GOAL 2: THRIVING GREEN SPACES

The Village has long recognized the value of green space and its significance as an environmental, economic, and community asset. Green spaces in urban environments provide many advantages: sport and recreation, preservation of natural environments, increased property values, and storm water management (among many others). Additionally, studies have shown that people who moved to areas with more green space improved their overall well-being, health, and happiness. The Village endeavors to become a leader in ensuring thriving green spaces now and for future generations.

- ❖ **Strategy: *Maintain a healthy and diverse urban tree canopy.*** The Village maintains over 6,000 trees on public property with an estimated value of over \$6 million. The economic, environmental, and social value of urban trees are well-documented. Indeed, the Village receives over \$0.9 million in annual benefits from its public trees. Comparing this to annual tree maintenance costs, for each \$1 the Village invests in its forestry operations, it receives over \$7 in return. The Village endeavors to continue to maintain a robust and resilient urban tree canopy now and for future generations.

This strategy could be accomplished by:

- Establishing an Urban Forestry utility (e.g., a special charge collected by the Village to support its urban forestry program) to ensure adequate funding for tree maintenance into the future.
- Adopting a tree protection ordinance that applies to all developers and/or property owners that protects and conserves desirable trees and the tree canopy.

- ❖ **Strategy: *Encourage use of native plants in outdoor spaces.*** The Village strives to use native plants in many of its outdoor spaces. Native plants can provide habitat for local and migratory animals and reduce water use and chemical use for pest control. The Village should continue to explore ways to integrate and encourage use of native plants in outdoor spaces.

This strategy could be accomplished by:

- Integrating native plants in all suitable municipal landscaping projects
- Continuing to expand efforts to control non-native plants.

- ❖ **Strategy: *Protect the integrity of shoreline while enhancing recreational value.*** The Village is bordered by Lake Mendota shoreline. The Village also maintains two lake access points (McKenna Park and the Marina) and one water outflow (Bigfoot Park). The Village should continue to manage its shoreline to protect lake waters and shoreline from activities that would increase lake pollution or adversely affect the lakes' ecology or use by swimmers, anglers, boaters or other recreational users. The Village should also continue to explore ways to increase recreational use and enjoyment of the lake.

This strategy could be accomplished by:

- Renovating McKenna boathouse and swimming platforms to encourage greater use of the area.

- Expanding the kayak/canoe share program to include additional recreational opportunities and options, such as stand up paddleboards.
- Adding benches at all public shoreline areas to increase public enjoyment.
- Improving access and accessibility to Lake Mendota.
- Improving the McKenna boathouse path to enhance walkability and accessibility for people with mobility challenges (as part of the LMO Bridge replacement project).

❖ **Strategy: *Protect existing green space while enhancing recreational value.*** There are numerous environmental and health benefits associated with access to public open space and parks. For example, access to vegetated areas such as parks, open spaces, and playgrounds has been associated with better perceived general health, reduced stress levels, and reduced depression. Thus, green space must be a key consideration in urban planning for the health of the Village and its residents. The Village maintains or owns numerous green spaces including its parks, the Shorewood Hills Elementary School playground and Heiden Haus area, numerous playground structures, and the land used by Blackhawk Country Club (under a lease to the Club). The Village is also bordered by important green spaces managed by other municipalities or entities, such as Eagle Heights woods and the University playing fields.

This strategy could be accomplished by:

- Placing existing green spaces into conservation easements that limit future development.
- Addressing resident encroachment into Village parks.
- Purchasing private land adjacent to Village parks to expand Village green spaces.
- Adding more walking paths throughout the Village and in Village parks that connect Village green spaces.
- Encouraging green spaces in future developments.
- Working with other municipalities and entities to protect green spaces into the future.

GOAL 3: LESS WASTE

The Village has already taken many steps towards reducing, reusing, and recycling waste. However, more actions could be taken. In particular, the Village will strive to become a “zero waste” community – one that diverts at least 90% of waste from the landfill (by recycling, composting, and/or reusing) -- with the ultimate goal of 100% diversion. The Village strives to become a leader in sustainable waste management.

❖ **Strategy: *Increase proportion of materials that are recycled and diverted from landfills.*** Recycling is an important part of preserving resources and leading more meaningful and responsible lives. Recycling can save landfill space, reduce pollution, and save energy and water resources. The Village should continue to expand its recycling efforts.

This strategy could be accomplished by:

- Performing a waste audit of the Village waste stream to identify waste material types.
- Instituting a Zero Waste Program at all Village events.
- Place a Zero Waste station at the Heiden Haus.
- Assessing whether disposed materials from building renovations or construction can be recycled and require that all bid documents and/or quotes address the recycling of waste materials.
- Banning single use plastic straws and bags at retail stores and restaurants in the Village.
- Banning single use (non-compostable) plastic cups, plates, and utensils at all Village events.

- Implementing a pay-as-you-throw or weight or volume-based garbage charge.
- Add a cardboard recycling center in the Village or partner with Madison for additional recycling options.

❖ **Strategy: Increase proportion of food waste that is composted and diverted from landfills.**

Food waste is a growing problem in modern society. According to the EPA, in 2015, more than 39 million tons of food waste was generated with only 5.3 percent diverted from landfills for composting. EPA estimates that more food reaches landfills and incinerators than any other single material in our everyday trash, constituting 22% of discarded municipal solid waste. Wasted food also decomposes and produces methane gas, a greenhouse gas associated with climate change. The Village should aim to reduce the amount of food waste that goes to landfills.

This strategy could be accomplished by:

- Instituting a Village compost program for food waste.
- Collaborating with other communities in Dane County to develop a regional composting program.
- The Village negotiating a discount rate with one or more private companies offering composting services to encourage resident participation.
- Educating residents on composting and providing incentives (such as vouchers for composting materials) for residents to compost food waste on their own property.

GOAL 4: CARBON NEUTRAL ENERGY USE

The Village endeavors to become a leader in energy efficiency and renewable energy use and generation. Carbon dioxide and other greenhouse gases are increasing in the Earth's atmosphere beyond normal levels due, in part, to the burning of fossil fuels. Given the accelerating rate of climate change, the Village must take strong and immediate action to lessen the Village's dependence on fossil fuels, reduce carbon emissions, and move towards alternative, renewable, and local sources of energy. The Village therefore commits to becoming a "net zero" community that purchases or produces all of its energy needs from renewable sources.

❖ **Strategy: Obtain 100% of all Village energy from renewable sources.** Madison Gas and Electric offers a program called Green Power Tomorrow that allows customers to purchase energy from renewable sources. The Village currently purchases energy under this program. Furthermore, the Village should explore the installation of renewable energy systems, such as solar panels or geothermal heat pumps, in the Village. This will allow the Village to generate at least some of its own energy from renewable sources. Overall, the Village should seek to obtain all energy from renewable sources.

This strategy could be accomplished by:

- Purchasing 100% of municipal energy from renewable energy sources through MG&E's Green Power Tomorrow program.
- Installing solar panels on or geothermal heat pumps in all suitable municipal buildings.
- Participating in or initiating a community solar program.
- Requiring that all major commercial developments conduct an energy study to determine if renewable energy systems, such as solar panels, could be integrated into major construction projects.
- Establishing a clear process for Village residents and businesses to install solar panels on buildings.
- Replacing existing Village fleet vehicles with electric vehicles according to the established replacement schedule.

- Installing electric vehicle charging stations in the Village.

❖ **Strategy: Reduce municipal energy use by 20% through energy efficiency initiatives.**

Reducing the amount of energy used saves money and protects the environment. The Village should continue to implement energy efficiency measures to reduce its energy consumption.

This strategy could be accomplished by:

- Utilizing green design and/or “Zero Net Energy” design into all new or major renovations of municipal buildings.
- Purchasing energy efficient or Energy Star® equipment whenever feasible.
- Reviewing Village policies, procedures, and practices to identify ways to integrate additional energy efficiency measures.
- Participating in grant programs that offer funding for energy efficient projects.
- Promoting LED lighting, heating, and cooling efficiency for Village buildings.
- Providing residents with rebates for investing in renewable energy or energy efficiency initiatives, or vouchers for energy audits, and encouraging residents to use Focus on Energy and other local resources to improve energy efficiency in residential homes.
- Installing electric vehicle chargers.

GOAL 5: HEALTHY PEOPLE

The Village is also committed to ensuring that public health needs are met through recreational and social opportunities, accessibility, safe streets that support people-powered and public transportation, government transparency and accountability, and a welcoming and inclusive community.

❖ **Strategy: Increase the availability, accessibility, and safety of alternative transportation (walking and biking) and public transportation to and from the Village.** Alternative and sustainable transportation options such as walking, biking, and public transportation can enable residents to adopt healthier lifestyles and strengthen community bonds while improving air quality.

This strategy could be accomplished by:

- Installing sidewalks and crosswalks where appropriate.
- Installing commuter bike lanes where appropriate.
- Working with the City of Madison to extend or reroute bus lines to make more parts of the Village accessible via bus and/or enable rapid transit bus and/or light rail initiatives.
- Support and advocate for the bus rapid transit (BRT) system.
- Providing bike racks at all municipal buildings and other Village destinations (such as parks and businesses).
- Considering walking and/or biking easements at all commercial redevelopments in the Village.
- Enforcing traffic laws including Village speed limits.
- Promoting annual Bike to School and Walk to School days and programming.

❖ **Strategy: Greater access to affordable and varied housing that meets the needs of people who want to live in the Village.** People desire safe, secure, and quality housing in great neighborhoods like the Village. Although the provision of housing is largely a function of the private sector, the Village plays a role in helping ensure that the housing needs of all residents are met. In particular, the Village should help ensure that housing opportunities in the Village meet the diverse

needs of the community and help ensure an array of housing options are available. The Village should also encourage the preservation of historic homes and buildings.

This strategy could be accomplished by:

- Requiring the inclusion of affordable housing units in apartment buildings.
- Encouraging and/or supporting the construction of varied housing options for residents at different life stages, such as the construction of small/tiny homes, townhouses, condos, and/or retirement facilities in the Village.
- Supporting historic preservation efforts for existing housing.

- ❖ **Strategy: Provide greater access to community spaces for people with disabilities.** The Village should ensure that older adults and people with disabilities have access to community-living opportunities.

This strategy could be accomplished by:

- Updating Village buildings (including all bathrooms) to comply with the ADA.
- Installing elevators on multi-story municipal buildings.
- Adding accessibility features to all construction or redevelopment of municipal buildings or community spaces.

- ❖ **Strategy: Reduce Noise, Light, and Air Pollution.** The Village has adopted numerous ordinances to control and reduce noise, light, and air pollution. However, noise, light, and air pollution issues will continue with development within and surrounding the Village. The Village should continue to strive to control these forms of pollution, which can have negative effects on residents and wildlife.

This strategy could be accomplished by:

- Determining whether any additional ordinances should be adopted to control noise, light, and air pollution (for example, an anti-idling ordinance to help reduce air pollution and motor noise or an expansion of the current noise ordinance to expand quiet hours).
- Phase out the use of gas-powered small motor equipment in favor of electric alternatives in the Village and/or require or encourage businesses working in the Village utilize such electric alternatives.

- ❖ **Strategy: Support green purchasing.** Green purchasing is using purchasing power in the most cost-effective, fair, and environmentally benign way. Purchasing environmentally friendly products can also help reduce long-term costs and create a healthier workplace.

This strategy could be accomplished by:

- Developing sustainability guidelines for Village purchasing including office supplies, building and remodeling supplies (paint, carpet), and services to encourage local, environmentally friendly products and/or fair-trade purchases.
- Researching and instituting green cleaning practices in municipal buildings.

- ❖ **Strategy: Support local independent businesses.** Buying local generates more jobs and wealth in the local economy compared to spending at absentee-owned businesses, including corporate chains. It reduces unnecessary transport, supports entrepreneurship, and strengthens and diversifies our

economy. Local businesses provide spaces for community members to interact and to know where their dollars are going, which supports well-being and strengthens the fabric of our community.

This strategy could be accomplished by:

- Planning that makes it economically feasible for local independent businesses to operate brick and mortar locations within the Village.
- Working to attract businesses that meet the needs of community members.
- Recognizing valuable local independent businesses with community awards that raise their profile and help keep them in business.
- Require that developers have a certain proportion of commercial tenants be local, independent businesses.

- ❖ **Strategy: Provide year-round meeting places.** Flexible spaces and creative programming foster community togetherness.

This strategy could be accomplished by:

- Making unused Village facilities available to residents. For example, a maker space could serve the dual purpose of a fun hangout for building and artmaking and also a place where residents can recycle household items.

- ❖ **Strategy: Foster healthy governance and broader participation and inclusion in Village decision-making.** When greater numbers of residents are involved in Village decision-making, and when staff is diverse, our policies and operations better reflect the diverse and changing needs of our community and better prepare us for the future.

This strategy could be accomplished by:

- Varying meeting times to be inclusive of not just those who are available at standard meeting times.
- Surveys to supplement the feedback received and collected at public meetings.
- Reaching out to apartment dwellers more frequently and effectively.
- Live streaming and videotaping meetings; making the videos available online.
- Improved website with complete and up-to-date information.
- Developing an inclusive hiring policy that specifies requirements for every Village job search.

GOAL 6: CLIMATE RESILIENCY

The Village is committed to ensuring resilience to climate change and its impacts. Climate change is resulting in more frequent and severe weather events including hotter heat waves, colder freezes, longer droughts, and more precipitation and flooding. Severe weather events have and will continue to pose a threat to the Village. For example, in 2018 a catastrophic flood resulted in millions of dollars of loss of Village, resident and business property. Much of the destroyed property also ended up in the landfill. Luckily, no lives were lost in the Village, but Madison experienced a casualty, highlighting the public safety risks from such severe weather events. While the Village strives to meet this growing threat, it recognizes it may not be able to develop resiliency solely through its own efforts. The Village will need to engage with regional partners to assess the local and regional vulnerabilities to climate change impacts and jointly develop strategies to build resilience to those impacts.

- ❖ **Strategy: Reduce extreme flooding events.** The Village must identify a viable solution for reducing extreme flooding events in the Village to ensure the safety of people within the Village, reduce Village, resident, and business property loss, and ensure that the Village remains a desirable location to live and locate businesses. The Village is part of the Willow Creek drainage basin with acreage split between Madison and the Village on an 84%/16% basis. As such, the Village should continue to encourage Madison to retain/detain upstream stormwater. The Village has also formed an Ad Hoc Stormwater Committee to examine the causes of the 2018 flood and recommend actions to prevent future catastrophic flooding events. The Stormwater Committee is expected to issue its report at the end of 2019.

ACKNOWLEDGEMENTS

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EXHIBIT A

BRIEF OVERVIEW OF PAST OF SUSTAINABILITY EFFORTS IN THE VILLAGE

The following represents a brief overview of the past sustainability efforts undertaken in the Village. These efforts are grouped by the five sustainability goals identified in the Sustainability Plan. Additional details on many of these efforts are available on the Village website.

Goal 1: Clean and Well-Managed Water

Stormwater Management Initiatives

- Adopted a stormwater management ordinance
- Established a stormwater utility
- Formed an Ad Hoc Stormwater Committee
- Joined the Madison Area Municipal Storm Water Partnership
- Installed water conveyance facilities
- Maintains rain gardens for water infiltration
- Designs curbs to help manage rainwater
- Conducted a permeable pavement trial
- Considered green roofs for at least one prior development

Phosphorus Pollution Reduction

- Joined the Yahara WINS program
- Maintains a robust street sweeping program
- Requests that residents do not deposit yard waste in streets

Salt Pollution Reduction

- Maintains a salt use reduction policy
- Recognized for its salt reduction efforts

Other Pollution Reduction

- Installed a Med-Drop box at the Village Hall

Goal 2: Thriving Green Spaces

Tree & Park Management

- Manages 9 parks covering 21 acres
- Established a Parks Committee
- Maintains a tree inventory
- Maintains a tree ordinance
- Recognized as a Tree City
- Offers a native tree sale program to residents
- Maintains a robust invasive species removal program
- Adopted invasive species ordinance

- Adopted a tree disease management ordinance
- Installed a public fruit tree orchard

Lakefront Management

- Regulates a lakefront setback
- Requires conditional use permits for all projects on Lake Mendota

Recreation Programs

- Established a Recreation Committee
- Offers a variety of recreation activities for residents of all ages
- Installed numerous playgrounds, including a nature-based playground

Domestic Animal and Wildlife Management

- Recognized as a Bird City
- Allows chicken and bee keeping
- Requires licenses and vaccinations for cats and dogs

Goal 3: Less Waste

- Offers a refuse and recycling program
- Offers an annual electronics recycling event
- Offers an annual spring cleanup and metal recycling event
- Provides access to the Dane County “Clean Sweep” household hazardous waste program
- Installed MedDrop boxes
- Maintains a leaf and brush pickup program
- Maintains a water loss control plan
- Member of the Metropolitan Refuse District

Goal 4: Carbon Neutral Energy Use

- Participates in MG&E’s Green Power Tomorrow program
- Endeavors to replace equipment with high efficiency units
- Replaced all gasoline powered equipment with diesel vehicles meeting new emission requirements.
- Passed a climate change resolution

Goal 5: Healthy People

Traffic Management

- Adopted a 20-mph speed limit ordinance
- Installed narrow street widths
- Installed a partial signal at Ridge Street and Hilldale Way
- Zoning code requires traffic management and traffic studies for redevelopment projects

Pedestrian and Bicycle Safety

- Started a Safe Routes to School program

- Started a Walk and Bike to School program
- Installed sidewalks on the east side of Village
- Installed three Madison B Cycle stations
- Installed bike lane extensions and repair stations
- Planning a bike overpass along University Avenue
- Utilizes community service officer for bike patrols
- Completed the multi-use path along University Avenue

Noise, Light, and Air Pollution Reduction

- Adopted a noise ordinance
- Adopted a dark sky ordinance
- Adopted a smoke free facilities ordinance

Development Requirements

- Adopted a floor area and building height limit ordinance
- Requires mixed-use developments
- Utilizes Planned Unit Development Zoning
- Requires that redevelopment projects include sustainable features
- Requires affordable housing in most redevelopments
- Requires structured parking

Other Actions

- Provides living wages and benefits to employees
- Offers community gardens
- Educates with a monthly bulletin
- Supported a Dementia Friendly Community initiative

Goal 6: Climate Resiliency

- The Village formed an Ad Hoc Stormwater Committee to examine the causes of the 2018 flood and recommend actions to prevent future catastrophic flooding events.

EXHIBIT B

**SUSTAINABILITY SCORECARD
[DRAFT]**

[This is a draft scorecard that may be further refined and edited in coordination with Village staff. It sets forth some potential metrics that could be used to track the Village’s progress towards the priority areas identified in the Plan.]

This scorecard should be updated annually by Village staff and presented to the Board. The purpose of this Sustainability Scorecard is to track Village progress with the priority sustainability areas identified in the Plan.

1. Sustainability Champions. The following Sustainability Champions have been appointed on Village committees:

Committee	Sustainability Champion (Name)
Plan Commission	
Blackhawk Liaison Committee	
Finance Committee	
Parks Committee	
Personnel Committee	
Pool Committee	
Public Health & Safety Committee	
Recreation Committee	
Services Committee	
Waterfront Committee	
Stormwater Committee	

2. Carbon Neutral Municipality. The Village is striving to make significant steps towards becoming a carbon neutral municipality in the following ways:

- **Obtain 100% of municipal electricity from renewable energy sources.**

	2019 (baseline)	2020	2021	2022	2023	2024	2025
Percentage (%) of municipal electricity from renewable sources							

- **Increase the number of solar panels on suitable municipal buildings.**

	2019 (baseline)	2020	2021	2022	2023	2024	2025
Number of municipal buildings							

with solar panels							
Number of solar panels on municipal buildings							

- **Reduce municipal electric energy consumption.**

	2019 (baseline)	2020	2021	2022	2023	2024	2025
Total annual municipal electricity use (kWh/year)							
Percent (%) reduction from baseline							

- **Investments in foot, bicycle, electric, and public methods of transportation.**

- 2019 (baseline): [Explanation]

3. Composting. The Village is committed to reducing the amount of food waste diverted to landfills by establishing a composting program. The following steps have been taken and pounds of food waste diverted:

	2019 (baseline)	2020	2021	2022	2023	2024	2025
Pounds (lbs) of food waste diverted from landfills							
Percent (%) reduction from baseline							
Explanation of steps taken							

4. Small Motor Noise and Pollution. The Village is committed to reducing noise and air pollution, especially from small motors.

	2019 (baseline)	2020	2021	2022	2023	2024	2025
Explanation of steps taken							
Estimate of noise or air pollution reduction?							

5. Reduction in Phosphorus and Sodium Chloride Runoff

- **Phosphorus Reductions**

	2019 (baseline)	2020	2021	2022	2023	2024	2025
Estimated pounds (lbs) of phosphorus runoff							
Percent (%) reduction from baseline							
Explanation of steps taken							

- **Sodium Chloride Reductions**

	2019 (baseline)	2020	2021	2022	2023	2024	2025
Pounds (lbs) of sodium chloride utilized by Village							
Percent (%) reduction from baseline							
Explanation of steps taken							

6. Pesticides, Herbicides, and Fertilizers. The Village is committed to reducing use of harmful pesticides, herbicides, and fertilizers in the Village. The following steps have been taken:

- 2019 (Baseline): [Explanation]

7. Climate Resiliency. The Village has taken the following steps to becoming a more resilient community in the face of climate change:

- 2019 (Baseline): [Explanation]

EXHIBIT C

SUSTAINABILITY RESOLUTION