SUSTAINABILITY ACTION PLAN

Town of Superior℠

TABLE OF CONTENTS

SUSTAINABILITY
ACTION
PLAN

ACKNOWLEDGEMENTS

The 2022 Town of Superior Sustainability Action Plan would not have been possible without the support and dedication of leadership, the Advisory Committee for Environmental Sustainability (ACES), staff and regional partners.

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Letter from the Mayor

Welcome to the Town of Superior's First Sustainability Action Plan!

A ROADMAP TO A SUSTAINABLE SUPERIOR: The Town of Superior has developed its first sustainability action plan that will serve as a guide for Town leadership, residents, businesses and staff to advance sustainability in the community. The strategies of this plan, once implemented, will reduce community-wide greenhouse gas emissions, improve social equity, promote good stewardship of the environment and create a stronger economy.

COMMUNITY-FOCUSED PLANNING AND ENGAGEMENT: The process to create this plan was led by the Advisory Committee for Environmental Sustainability (ACES) in partnership with Town staff. Through three work sessions, Shape Superior, a community workshop and one-on-one conversations, staff and ACES engaged with over 300 residents and 30 regional and state organizations. A summary of the engagement process is included in Appendix A.

The Town of Superior sustainability action plan will serve as a guide for Town leadership, residents, businesses and staff to advance sustainability in the community.

A DYNAMIC AND ADAPTABLE PLAN: There are over 100 actions identified across seven goal areas to be achieved by the end of this decade. An update will be necessary as:

- Actions are completed successfully;
- Regional, state and federal policies shift and improve local capacity and resources;
- Advancements in technology provide solutions that were previously unattainable
- The Town Board or ACES recognize the need for a plan update.

Staff will compile an annual report on plan progress. This report will identify the need for an update to the plan.

INTENDED USE AND PLAN IMPLEMENTATION: The Sustainability Action Plan should be used as a roadmap and springboard for implementation of each recommended action. The implementation pathway for each action is unique, requiring partner input and support, and relying on a variety of mechanisms to be effective. Appendix B of the plan outlines the implementation plan for each action, as well as provides an impact ranking for each action. These rankings are based on several criteria: GHG reduction potential (or waste diversion potential or water use reduction potential for the Zero Waste and Water chapters, respectively); equity and inclusivity considerations; ability to strengthen community health and resilience; ability to improve environmental quality; and the cost of implementation of the action.

In January 2021, the Town Board accepted the following Sustainability Vision developed and recommended by ACES:

The Town of Superior aspires to be a leader in environmental sustainability and to unleash its full potential to eliminate greenhouse gas emissions from the community. By embracing sustainability and making it a key consideration in all relevant aspects of Town planning, Superior aims to:

- **Address the climate crisis** and demonstrate leadership by becoming carbon neutral ahead of Colorado's statewide goal.
- **Proactively identify emergent climate-driven challenges** such as water scarcity, droughts, reduced air quality, and increased flooding risks, and make continual improvements to increase resilience Town-wide.
- **Improve community health** by improving indoor environmental systems throughout the Town, reducing reliance on fossil fuels in buildings and transportation, moving to zero waste, and working with neighboring communities to maintain healthy outdoor air quality.
- **Maintain vibrant green spaces** and healthy ecosystems for current and future residents to enjoy.
- **Adopt a forward-looking strategy** to ensure that buildings and Town facilities incorporate sustainable features that make them attractive and competitive with others in the area.
- **Promote community** by directly supporting local businesses and food producers, helping residents and businesses reduce costs through resource efficiency, and working to improve energy equity.
- **Embrace innovation** and become a leading example for other communities to follow.

Achieving these objectives requires a truly comprehensive approach; strong partnerships and collaborations with residents, local businesses, utility companies, and regional organizations; diligent work by Town staff and ACES; a bold and iterative approach to improvements over time; and persistent strong leadership by the Town Board of Trustees. By embracing these challenges, the Town will put action to its core commitments to residents and community members to ensure a thriving, attractive, and safe community for generations to come.

Integrated Planning Efforts

Superior has completed multiple planning efforts that address one or multiple focus areas of the Sustainability Action Plan. The strategies of this plan are intended to complement the goals and strategies of these plans ACES Energy Action Plan

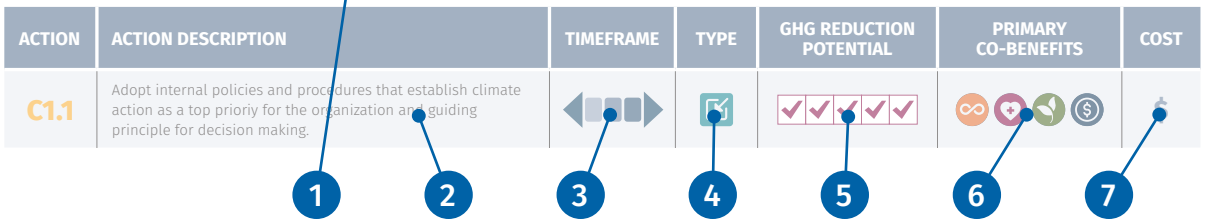
- Boulder County Environmental Sustainability Plan
- Boulder County Zero Waste Scorecard
- Town of Superior Transportation Plan 2014 Update
- Town of Superior Parks, Recreation, Open Space and Trails Master Plan
- Town of Superior Water Conservation Plan

PLAN STRUCTURE, DEFINITIONS & KEY

This plan includes seven focus areas

Climate, Energy, Zero Waste, Water, Air Quality, Transportation and Regeneration and Natural Systems. Each chapter includes an introduction and summary of current conditions of the focus area in Superior. The schematic on this page explains the remaining elements of the chapters.

Strategy 1 | Minimize Superior's community-wide greenhouse gas emissions and prepare for and adapt to ongoing impacts of climate change.



Objective
Aspirational statement that reflects the desired condition for each focus area. The objective can be found at the beginning of each focus area.

1 Strategy
Major initiatives the Town and community will pursue in support of sustainability goals and objectives.

2 Action
The programs, projects, partnerships, studies, policies and steps that help achieve each strategy.

3 Timeframe
The anticipated amount of time it will take to complete an action.

Ongoing
Already taking place and to be continued through acceptance of the Sustainability Action Plan.

Immediate
Deadline within six months of acceptance of the Sustainability Action Plan

Short-term
Quick wins, lower cost and lower effort. Short-term actions build support for more actions.

Medium-term
Larger impact actions that bridge short-term and long-term actions.

Long-term
These are the actions with the largest impact and are transformative.

4 Type
Indicates whether the action will be implemented internally or throughout the entire community.

Internal

Community-wide

5 Greenhouse Gas Reduction Potential
GHG reduction potential for each action represents how much it could reduce GHG emissions in the context of the strategy it is a part of. For the Zero Waste and Water chapters, this column was replaced with Waste Reduction Potential and Water Use Reduction Potential, respectively. Reduction potential was approximated and is presented using a ✓ to ✓✓✓✓✓ scale:

1 = **does not reduce** GHG emissions / waste / water use
2 = **marginally reduces** GHG emissions / waste / water use
3 = **moderately reduces** GHG emissions / waste / water use
4 = **significantly reduces** GHG emissions / waste / water use
5 = **extremely reduces** GHG emissions / waste / water use

6 Co-Benefits
Aspirational statement that reflects the desired condition for each focus area.

Equity and Inclusivity

Environmental Quality

Community Health and Resilience

Economic Sustainability

7 Cost
Cost represents the direct cost for the Town to implement the action. Cost is approximated.

$ = **Cost is nominal**
$$ = **Cost is moderately expensive**
$$$ = **Cost is extremely expensive**

CLIMATE

SUSTAINABILITY
ACTION PLAN

Town of Superior

Objective

Achieve net-zero emissions and become resilient to the impacts of climate change.

Introduction and Current Conditions

Colorado's climate is changing, and the impacts are being felt everywhere, including in Superior. Local governments have the ability to address climate change and the challenges it poses in an efficient manner. Climate efforts across towns and cities result in a combined impact of reduced greenhouse gas (GHG) emissions, cleaner air and a healthier community.

Most recent data from the Intergovernmental Panel on Climate Change (IPCC) indicates that global surface temperatures will continue to increase until at least the mid-century. Global warming of 1.5°C to 2°C will be exceeded during the 21st century unless deep reductions in carbon dioxide (CO2) and other greenhouse gas emissions occur in the coming decades.

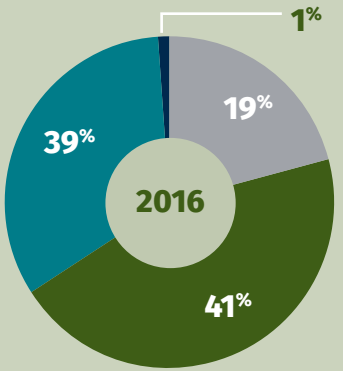
Recognizing that the climate in Superior will change over time, there are two ways the strategies of this plan address climate change:

- **CLIMATE MITIGATION** aims to reduce the flow of carbon emissions and other heat-trapping greenhouse gases into the atmosphere by either reducing the sources of the gases or enhancing the sinks that store these gases.

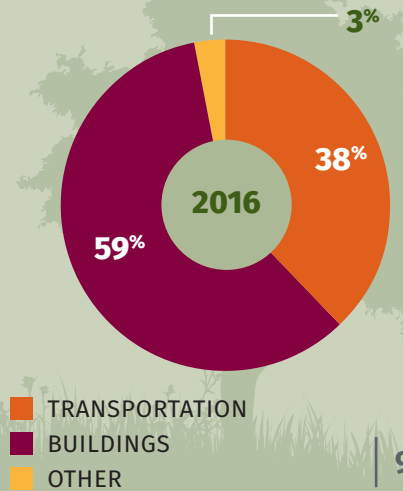
- **CLIMATE ADAPTATION** focuses on adjusting to the changes in climate we know will take place and aims to reduce vulnerability to the harmful effects of climate change.

In 2016, Boulder County completed a county-wide GHG inventory, which highlights emissions from each municipality, sector and source. The total GHG emissions for Superior was 109,834 metric tons of carbon dioxide equivalent ($mtCO_2e$) and accounts for two percent of Boulder County's total emissions. The average emissions per Superior resident is 8.3 mtC02e, the lowest for all municipalities in Boulder County.

Greenhouse Gas Emissions by Sector

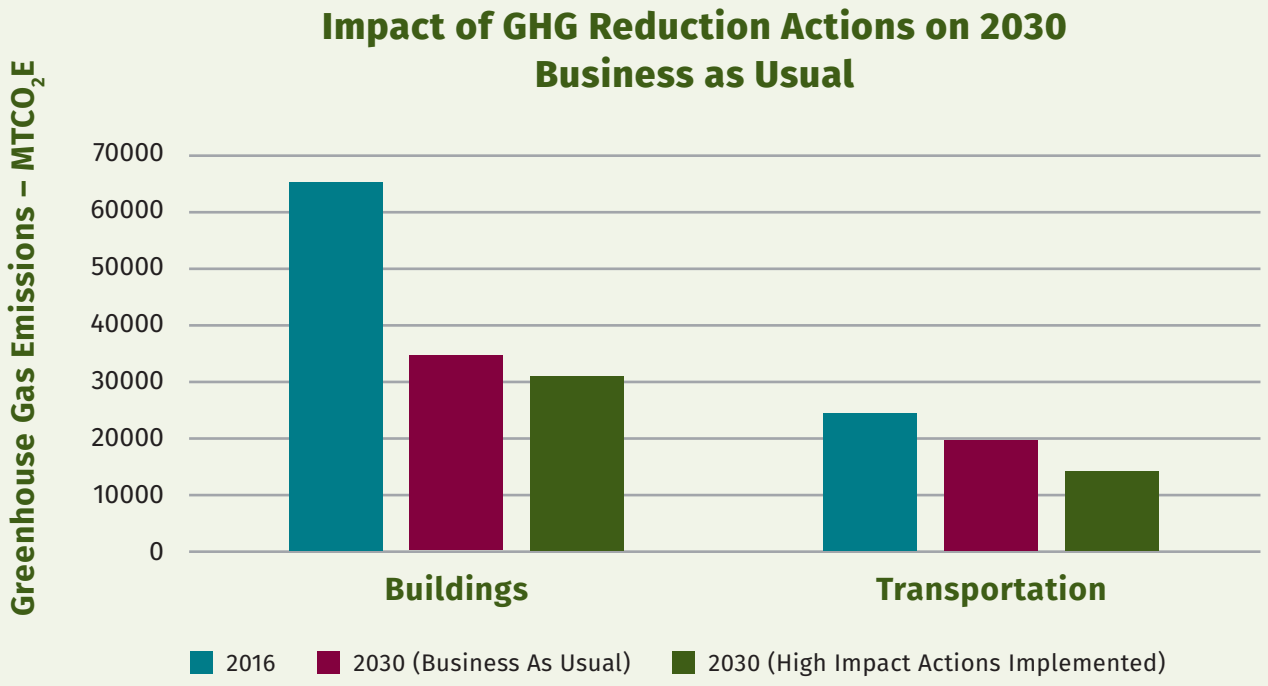


Greenhouse Gas Emissions by Source



Business as Usual

The term “business as usual (BAU)” is an emission value defined in a future year to represent emissions that would occur if an attempt had not been made by the Town to reduce emissions. The BAU considers population growth rates and changes in emission factors. The emission factors for electricity and transportation are expected to decrease annually as a result of the State of Colorado’s Climate Action Plan and Electric Vehicle Plan.



Climate Goals:

Reduce townwide greenhouse gas emissions over time:

2025

25% below 2016 emissions

2030

59.5% below 2016 emissions

2050

NET-ZERO

Strategy 1

Minimize Superior's community-wide greenhouse gas emissions and prepare for and adapt to ongoing impacts of climate change.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
C1.1	Adopt internal policies and procedures that establish climate action as a top prioriy for the organization and guiding principle for decision making.					$
C1.2	Include as part of the Town's vendor and contractor procurement process an inquiry about the applicant's strategy to reduce GHG emissions associated with the service or project.					$
C1.3	In collaboration with Partners for a Clean Environment (PACE), develop a Green Business Program that supports businesses in their efforts and recognizes businesses for their investments and contributions to climate action, the economic vitality of our community, and the health of our environment.					$
C1.4	Complete a comprehensive, community-wide consumption-based GHG inventory every five years. This may be a Town-led inventory the requires a consultant, or the opportunity may exist to participate in a regional Boulder County inventory.					$$
C1.5	Develop a Climate Adaptation and Resilience Strategy to better prepare for climate change impacts on infrastructure, vulnerable populations and the economy.					$$
C1.6	Develop and implement a community-wide tree canopy preservation and planting program for residential, commercial and Town-owned property.					$$

Internal · Community-wide · Equity and Inclusivity · Community Health and Resilience · Environmental Quality · Economic Sustainability

Strategy 2

Participate in regional, state and federal decision-making processes regarding climate change that will have an impact at the local level.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
C2.1	Be an active member in state and nationwide organizations that are working on the Town's behalf to combat Climate Change, including Colorado Communities for Climate Action (CC4CA) and Local Governments for Sustainability (ICLEI).					$
C2.2	Local staff and elected officials to add support for climate action policy efforts through participation in Colorado Communities for Climate Action (CC4CA) and bolstering support through public comment at Transportation Commission, Denver Regional Coalition of Governments (DRCOG), Air Quality Control Commission (AQCC), and Regional Air Quality Council (RAQC).					$
C2.3	Sponsor State legislation that advances net zero carbon initiatives.					$
C2.4	Help sponsor Federal legislation that advances net zero carbon initiatives.					$

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Strategy 3

Pursue carbon off-sets and reduce embodied carbon.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
C3.1	Purchase off-sets to match natural gas emissions as a transitional measure.					$$
C3.2	Purchase off-sets for Town staff that travel for business.					$$
C3.3	Implement a Carbon Smart Materials Palette required for all new residential and commercial buildings					$$
C3.4	Require all new concrete used in Superior to use flyash					$

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Climate Neutrality and the Race to Zero

In September 2021, the Town Board approved a resolution to join the ICLEI150/Cities Race to Zero commitment. Race to Zero is a global campaign of the United Nations' Climate Champions to rally leadership and support from across all sectors for a healthy, resilient, zero-carbon recovery that prevents future threats, creates jobs and encourages inclusive, sustainable growth.

By joining the Race to Zero, the Town pledges to get to zero greenhouse gas emissions as soon as possible, and by 2050 at the latest. ICLEI assisted the Town in setting an interim target that reflects the Town's fair share effort to reach 50% global CO2 reductions by 2030. The Town's 2030 target is a 63% reduction per capita below 2016 emissions, which is reflected in the goals of this plan. As an ICLEI member, the Town leverages their existing Climate Neutrality Framework to reduce emissions, build resiliency, and ensure our actions are equitable and inclusive. The actions set-forth in this plan are the foundation for achieving climate neutrality in Superior.

ICLEI
Local Governments for Sustainability
USA

Key Performance Indicators

- Community-wide GHG emissions
- Kilowatts of off-sets purchased
- Number of climate bills supported that passed

ENERGY

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Town of Superior℠

Objective

Eliminate the consumption of fossil fuels in Superior.

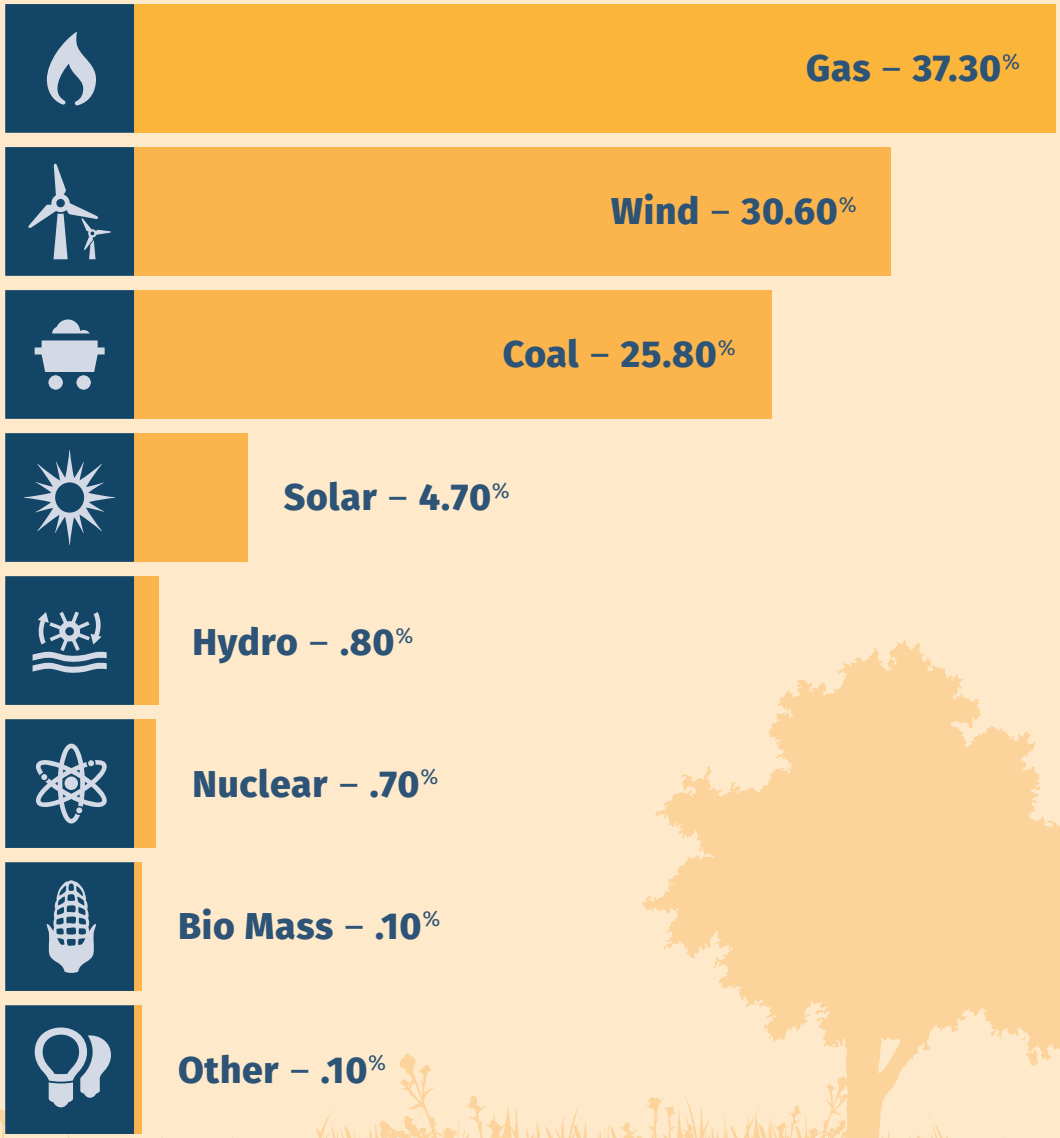
Introduction and Current Conditions

State law adopted in 2019 requires Xcel Energy, the Town's electricity and natural utility, to adopt a clean energy plan to reduce GHG emissions 80% by 2030. Key actions for the Town to take to further drive down emissions associated with energy include identifying opportunities to reduce energy-related dependency on fossil fuels including coal and natural gas; improving energy efficiency; and investing in regional renewable energy. These key strategies to reduce greenhouse gas emissions will lead to a more resilient energy system in Superior.

Municipal Energy

The Town owns and operates facilities throughout the community. Currently, the Town facilities receive 100% of electricity needs from onsite solar arrays coupled with Xcel Energy's Windsource program. Participation in the Windsource program allowed the Town to transition away from carbon-based fuels for electricity, and actions in this plan will lead to ongoing evaluation of where the Town can add renewable energy, reduce dependency on natural gas, and create more efficient facilities.

Where does Superior's Energy Come From?



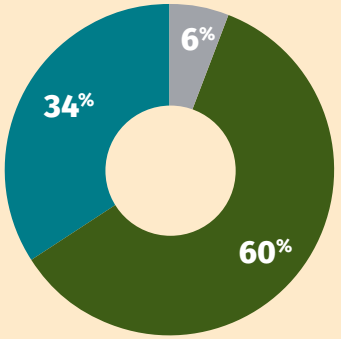
Source: *2020 Superior Annual Community Energy Report*

Energy Goals

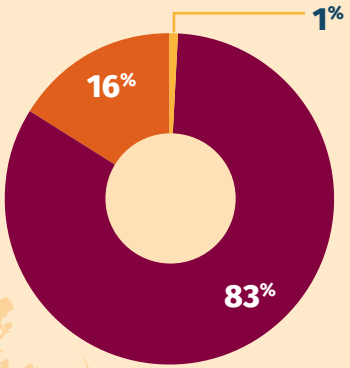
MUNICIPAL GOAL:	**M-EG1:** Reduce municipal building and facility energy use intensity by 3% annually over 2019 baseline.	**M-EG2:** Continue to receive 100% of residential electric needs from carbon-free sources and increase onsite renewable energy.
RESIDENTIAL GOAL:	**R-EG1:** Reduce electricity use by 2% annually and natural gas consumption by 2% annually through 2030.	**R-EG2:** Achieve 90% of residential electric needs from carbon-free sources by 2030.
COMMERCIAL GOAL:	**C-EG1:** Reduce combined electricity and natural gas use by 3% annually through 2030.	

Who Uses Energy in Superior?

Electricity Consumption by Sector



Natural Gas Consumption by Sector



Source: *2020 Superior Annual Community Energy Report and Rocky Mountain Energy Management Facility Audit*

Strategy 1

Decarbonize new and existing buildings through a combination of programs and policies.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
E1.1	Complete a beneficial electrification study and educational primer for new and existing buildings in all sectors.			✓		$
E1.2	Increase awareness and adoption of efficient electric alternatives to gas appliances and all electric buildings through community engagement.			✓✓	Community Health and Resilience	$
E1.3	Implement an additional permitting fee for all new construction and renovations that include gas appliances, heating equipment and water heaters. Use these fees to fund a tiered residential incentive program to adopt carbon-free appliance alternatives.			✓✓✓	Equity and Inclusivity; Community Health and Resilience	$
E1.4	Adopt a building decarbonization code aimed at delivering carbon neutral performance.			✓✓✓✓	Community Health and Resilience	$
E1.5	Explore electrification of town-owned facilities, or other clean and renewable energy sources, in a phased approach.			✓✓✓		$$$

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Strategy 2

Increase efficiency and reduce energy consumption in all sectors.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
E2.1	Continue to implement the Energy Action Plan to engage business owners, residents and the Town in energy efficiency efforts.					$
E2.2	Update the Town's energy code to the 2021 International Energy Conservation Code. Review stretch code standards and identify other opportunities to improve energy efficiency.					$
E2.3	Promote the Colorado Energy Office's Weatherization Assistance Program and Boulder County's Low Income Energy Assistance Program and work with these agencies to create Superior specific marketing materials, workshops and programs.					$
E2.4	Promote energy efficiency practices in rental properties through education, incentives and collaboration with property managers.					$
E2.5	Develop an ordinance requiring rental properties, new and existing, meet a certain energy efficiency standard.					$
E2.6	Collect and track energy use data for all municipal buildings using the utility tracking tool EPA Energy Star Portfolio Manager.					$
E2.7	Identify and leverage tools, grants and programs, such as Energy Performance Contracting, to implement high-savings efficiency upgrades at water treatment facilities.					$$

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Strategy 3

Increase integration of carbon-free energy in all sectors.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
E3.1	Continue to install solar on municipal facilities including on rooftops and through solar shade structures where feasible.					$$$
E3.2	Maintain SolSmart Bronze Designation and identify opportunities to advance to Silver or Gold designation by streamlining the permitting process for solar installations in all sectors.					$
E3.3	Implement a solar-ready building code for all new construction in all sectors.					$
E3.4	Research and implement a bulk purchase and/or matching discount solar installation program for residential and commercial properties. This program should not be a one-time offering but annually or bi-annually depending on staff capacity.					$$
E3.5	Require solar on all new homes to offset 100% of electricity use, or the maximum that is technically feasible for the roof.					$
E3.6	Create and implement a municipal energy efficiency and renewable energy roadmap to integrate more affordable, long-term solutions into the budget for reducing and/or offsetting municipal emissions from energy consumption.					$$$

Internal · Community-wide · Equity and Inclusivity · Community Health and Resilience · Environmental Quality · Economic Sustainability

Engaging the Community with an Energy Action Plan

By Mike Foster, ACES Chair

The Energy Action Plan effort is led by the Advisory Committee for Environmental Sustainability (ACES) and is a collaboration between the Town of Superior and Xcel Energy's Partners in Energy program. The plan outlines key strategies to connect residents and businesses with information and financial resources to take meaningful action to reduce energy use by the end of 2022. Adopted by the Town Board in January 2021, it focuses efforts in four key areas:

1. engaging residents and businesses in energy efficiency and renewable energy programs;
2. promotes energy efficient new development;
3. encourages and provides resources for the Town to convert its fleet to electric vehicles;
4. expands energy efficiency and renewable energy projects at Town-owned facilities.

The Town began implementation of the plan by completing energy audits on Town-owned buildings, replacing two fleet vehicles with electric, installing two additional EV charging stations and kicking-off a Town-wide Home Energy Challenge, a friendly competition among neighborhoods to see which one can reduce the most energy usage. Efforts to engage businesses is also underway and the Town is working with builders to incorporate more energy efficiency measures into future housing developments.

Key Performance Indicators

- Municipal building and facility energy use intensity
- % onsite municipal renewable energy generation
- Residential electricity use
- Residential natural gas consumption
- % of residential electric needs from carbon-free sources
- Combined commercial electricity and natural gas consumption
- # of building permits issued under established building codes

ZERO WASTE

SUSTAINABILITY
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Town of Superior

Objective

Reduce the amount of materials consumed in Superior and discarded in the landfill.

Introduction and Current Conditions

The Town collaborates with local businesses, organizations and other municipalities in the region to provide opportunities for residents to responsibly dispose of materials and keep them out of the landfill. Policies, programs and initiatives to improve waste diversion have taken place in Superior for over 20 years with the support of regional partners. These efforts include the development of a yard waste collection facility, participation in an intergovernmental agreement with the Boulder County Hazardous Materials Management Facility (HMMF), household hazardous waste and hard-to-recycle collection events, education and programming in Superior schools, a dog waste compost program, and zero waste infrastructure at Town facilities.

While large strides have been taken on the Town's path to zero waste, many opportunities exist to increase the town-wide diversion rate, refine data collection and management processes around waste diversion, and improve the programs and services offered to residents in an equitable and affordable manner.

Waste Diversion Goals

MUNICIPAL GOAL

65% diversion from landfill by 2025

RESIDENTIAL GOAL (SINGLE-FAMILY)

65% diversion from landfill by 2030

RESIDENTIAL GOAL (MULTI-FAMILY)

50% diversion from landfill by 2030

Strategy 1

Create the infrastructure to allow for full waste diversion.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	WASTE REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
Z1.1	Continue to support and improve existing waste diversion efforts including the annual hard-to-recycle/hazardous waste event, the Boulder County HMM Facility, dog waste composting, zero waste infrastructure at Town facilities and programming in schools.					$$
Z1.2	Get out of or improve existing contracts to include year-round curbside composting as soon as possible. This will require strong collaboration with the HOAs.					$
Z1.3	Ensure all residents with curbside waste hauling have access to recycling and composting. Consolidate the requirements of waste hauling contracts across the community by working with the HOAs and implement a Pay As You Throw model where the customer pays for landfill waste capacity and recycling and compost is included in service.					$
Z1.4	Audit all public waste collection areas and identify opportunities for improved signage, infrastructure and additional stream collection.					$$
Z1.5	Leverage Boulder County's existing ReTRAC reporting system for improved data tracking.					$
Z1.6	Support composting options for apartments by facilitating conversations with providers, providing incentives and/or identifying grant funding.					$$

Internal · Community-wide · Equity and Inclusivity · Community Health and Resilience · Environmental Quality · Economic Sustainability

Strategy 2

Bring awareness to waste reduction practices through outreach and education.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	WASTE REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
Z2.1	Run all Town events as zero waste events. This will require staff training and education on protocol for a zero waste event.	▶	Internal	✓✓✓✓	Environmental Quality	$$
Z2.2	Expand the Eco-Leader framework in Superior through recruitment.	▶▶	Community-wide	✓✓	Community Health and Resilience	$
Z2.3	Improve the Superior website as it relates to waste diversion by adding a comprehensive list of resources and adding waste-related webinars from partners.	▶▶	Internal	✓✓		$
Z2.4	Work with community partners and organizations to run neccessary public information campaigns on waste diversion.	▶▶	Community-wide	✓✓✓		$$
Z2.5	Build upon existing suppport provided to Superior schools to make sure students are educated on waste impact and solutions. Work with the Eco-Cycle Green Star Schools program to expand education opportunities.	▶▶	Internal	✓✓✓	Community Health and Resilience	$$

Internal · Community-wide · Equity and Inclusivity · Community Health and Resilience · Environmental Quality · Economic Sustainability

Strategy 3

Develop programs, ordinances and policies that support a circular economy, waste diversion and product stewardship.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	WASTE REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
Z3.1	Participate as an active member of Recycle Colorado in policy discussions that keep valuable material resources out of the landfills.					$
Z3.2	Explore code requirements for diversion of construction and demolition waste and consider requiring a waste management plan to be submitted by developers.					$
Z3.3	Review and identify opportunities to improve the municipal environmentally prefereable purchasing policy.					$
Z3.4	Implement a voluntary reusable takeout container program and consider other closed-loop solutions to materials within the Superior business community.					$$
Z3.5	Create an incentive program for new businesses to open shop with zero waste policies and infrastructure in place from the start and for existing businesses that make a capital investment and update their policy to operate as zero waste.					$$
Z3.6	Support businesses with the transition required by future legisltation to reduce single use plastics. Develop educational resoures, working groups and partnerships to help businesses make this transition.					$

Internal | Community-wide | Equity and Inclusivity | Community Health and Resilience | Environmental Quality | Economic Sustainability

What does “Zero Waste” actually mean?

Opportunities exist at multiple phases of a products life to reduce waste, extend product longevity and improve reuse and recovery potential. Zero Waste takes a systems approach to eliminating wasteful practices, developing reuse systems, recycling, and composting, to maximize the best use of resources that can then be reinvested in the local economy to create more income, wealth and jobs for residents. Each phase of the Zero Waste Cycle reduces negative health and environmental impacts and adds value to our economic and natural systems. The strategies in this plan address each phase of the Zero Waste Cycle through various mechanisms including education, incentives and policies.

Key Performance Indicators

- Number of households participating in special collection events
- Number of Superior resident visits to the HMMF
- Number of single-family home residents participating in curbside compost collection
- Number of multi-family home residents participating in a compost collection program
- Number of businesses participating in zero waste programs
- Town event diversion rate
- Community zero waste volunteer hours

WATER

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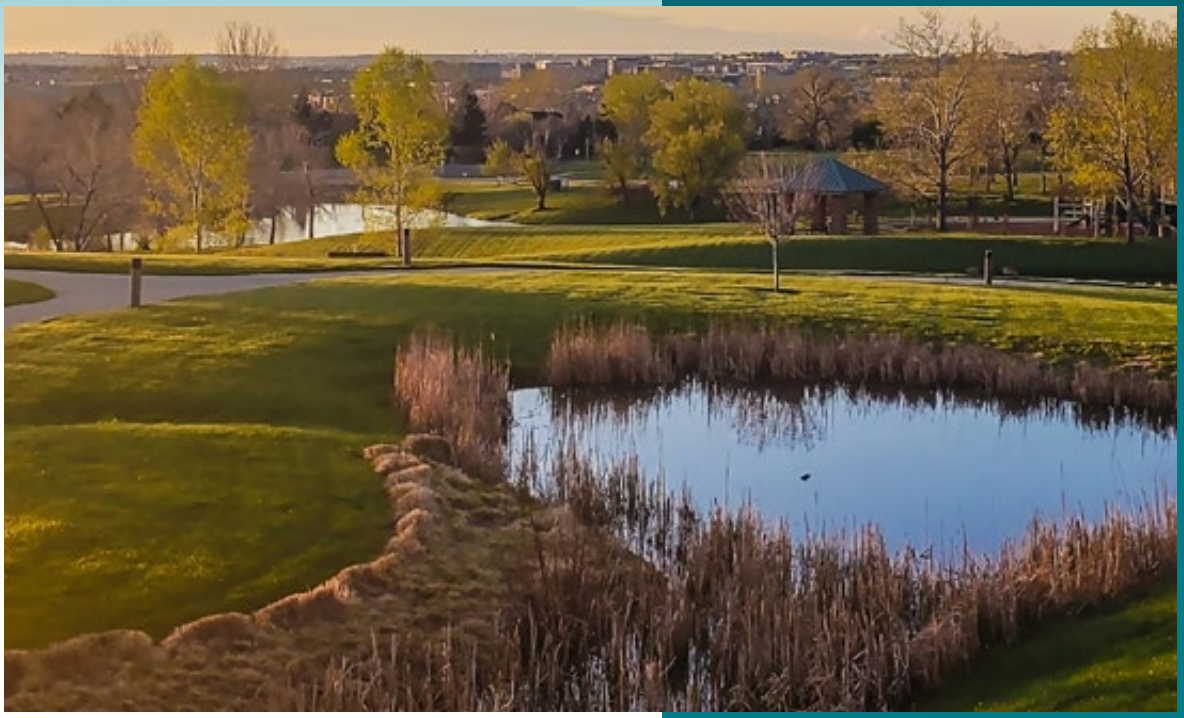


Town of Superior

Objective

Ensure sufficient, clean water for current and future generations and habitats by reducing consumption, building capacity, improving storm water quality and becoming drought resilient.

Introduction and Current Conditions

The Town published a Water Conservation Plan in 2019 that profiles the existing water system in Superior, outlines historic, current and forecasted water demands, sets water savings goals for potable and non-potable water, and identifies priority water conservation activities to support future demand reduction. The goals set-forth in this plan are directly from the Water Conservation Plan, and the majority of the strategies and their actions complement the priorities and recommended actions of the existing plan. Additionally, there are several actions included with a focus on water quality.

Through partnerships, programs, ordinances and resource development, the Town is committed to supporting efficiency and conservation, as well as protecting water quality for our residents, businesses and wildlife populations.

Water Goals – Town Wide

1 Reduce potable water use by **3.5%** by **2030**

2 Reduce non-potable water use by **13%** by **2030**

3 Reduce non-revenue water to **5%** of total treated water per year by **2030**

Water Supply

The Town's predominant water supply is from ownership of Units in the Colorado-Big Thompson and Windy Gap Projects through allotment contract with the Northern Colorado Water Conservancy District (Northern Water). Water rights allow only the Windy Gap Units to be reused for irrigation, the remaining effluent must be released into a waterway. Additional irrigation water is supplied by the Town's rights to water from three irrigation companies.

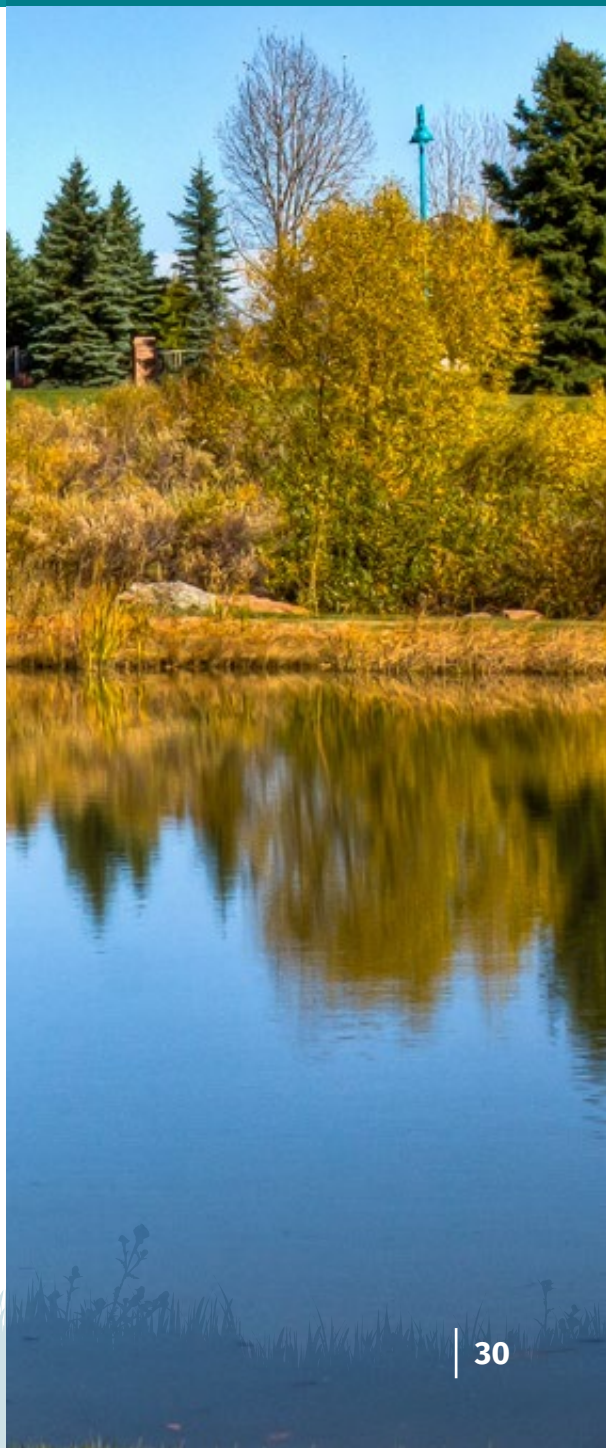
The Town has a robust water supply portfolio and while the Town has not historically experienced water supply limitations, the Town's water supply could be compromised by drought and other unforeseen impacts as a result of climate change.

Water Demand

Total annual water demand in Superior has remained relatively constant over the past 6 years. According to the Water Conservation Plan, this is typical of municipal demand trends across the United States, which have generally declined or held steady in recent years, even as population increases. This can be credited to Superior's current billing structure and water efficiency policies, along with national plumbing codes and standards and programs like those provided by Resource Central, a community partner.

It is important to note that across the year, potable water, also known as drinking water, accounts for approximately two-thirds of demand. Potable water accounts for approximately half of demand during peak summer months when non-potable water, also known as irrigation water, is used widely across the community.

For more information on the Town's water supply, demand and system losses, view the entire Water Conservation Plan on the Town's Water Conservation webpage.



Strategy 1

Reduce outdoor water use in all sectors.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	H_2O USE REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
W1.1	Continue to provide rebates and discounts to residents for water conservation programming including Garden in a Box, turf removal, Slow the Flow and the water efficiency rebate program.					$$
W1.2	Perform an audit of the Town's irrigation system.					$$
W1.3	Implement recommendations provided from the Town irrigation audit.					$$$
W1.4	Become a member of Colorado WaterWise to leverage their existing resource and knowledge to increase awareness and adoption of efficient water use through community engagement.					$
W1.6	Identify additional outdoor irrigation equipment to add to the existing water rebate program in order to reduce summertime peak water use.					$$
W1.6	Increase community-wide outdoor water use monitoring by leveraging the latest technologies available for jurisdictions. Examples of such technology include Dropcountr, Flume, and WaterMyYard.					$$
W1.7	Incorporate the use of low water waste pool filtration systems during renovations at the Town pools.					

Internal · Community-wide · Equity and Inclusivity · Community Health and Resilience · Environmental Quality · Economic Sustainability

Strategy 1 (continued)

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	H_2O USE REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
W1.8	Work with HOAs to develop and communicate standard guidelines for turf removal and xeriscaping.					$

Strategy 2

Reduce indoor water use in all sectors and bring awareness to indoor water quality practices.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	H_2O USE REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
W2.1	When available, offer residents discounted indoor water use assessments from Resource Central.					$$
W2.2	Develop or leverage an existing awareness campaign about indoor water quality (ex. hazardous chemicals, medications entering water system, and micro-plastics).			n/a		$
W2.3	Review the existing tiered utility structure and how it compares to what other Colorado communities are doing to encourage water conservation. Consider establishing a fund from the excess water fees to incentivize xeriscaping, turf reduction and other water conservation measures.					$

Internal · Community-wide · Equity and Inclusivity · Community Health and Resilience · Environmental Quality · Economic Sustainability

Strategy 2 (continued)

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	H_2O USE REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
W2.4	Increase community-wide indoor water use monitoring by leveraging the latest technologies available for jurisdictions. Examples of such technology include Drop Countr, Flume, and Beacon.					$$

Strategy 3

Continue improving the Town's stormwater quality by adhering to Municipal Separate Storm Sewer Systems compliance requirements and engaging in partnerships to educate the community.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	H_2O USE REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
W3.1	Submit the annual Municipal Separate Storm Sewer Systems compliance report.			n/a		$
W3.2	Actively participate in the Keep It Clean Partnership (KICP) aimed at protecting, promoting and improving watershed health in the Boulder St. Vrain basin.			n/a		$

Internal · Community-wide · Equity and Inclusivity · Community Health and Resilience · Environmental Quality · Economic Sustainability

Strategy 4

Build the capacity of the Town's water system and create policies for smart land use planning for water conservation.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
W4.1	Participate, within the first three years of Plan adoption, in the Growing Water Smart: Integrated Water and Land Use Planning Workshop from the Sonoran Institute.			✓		$
W4.2	Perform a review of landscape development code and improve code in regards to requiring climate appropriate landscaping and eliminating large areas of turf in commercial areas.			✓✓✓	Environmental Quality, Economic Sustainability	$
W4.3	Review existing infrastructure to identify and address sources of water loss.			✓✓✓	Economic Sustainability	$$$
W4.4	Review land use maps to determine ability for increased storage capacity.			n/a	Community Health and Resilience	$

Internal | Community-wide | Equity and Inclusivity | Community Health and Resilience | Environmental Quality | Economic Sustainability

Reuse Water Used Across Town for Irrigation

Reuse water, also known as reclaimed water, is completely separate from the potable, or drinking water system. Reuse water has its own distribution system and accessories - meter vaults, sprinkler heads, etc. - which are painted purple for identification and delineation from the drinking water system. Reuse water is treated, effluent water from the wastewater treatment plant; this is former sewage that has been chemically treated to remove solids and impurities for commercial landscape irrigation.

Reuse water is pumped from the wastewater treatment plant through the distribution system and up to a 1.4-million-gallon tank on a hilltop in the southeast part of town; from there, it flows by gravity to deliver irrigation water to customers. All customers using reclaimed water must comply with the Town's requirements around reclaimed water use.

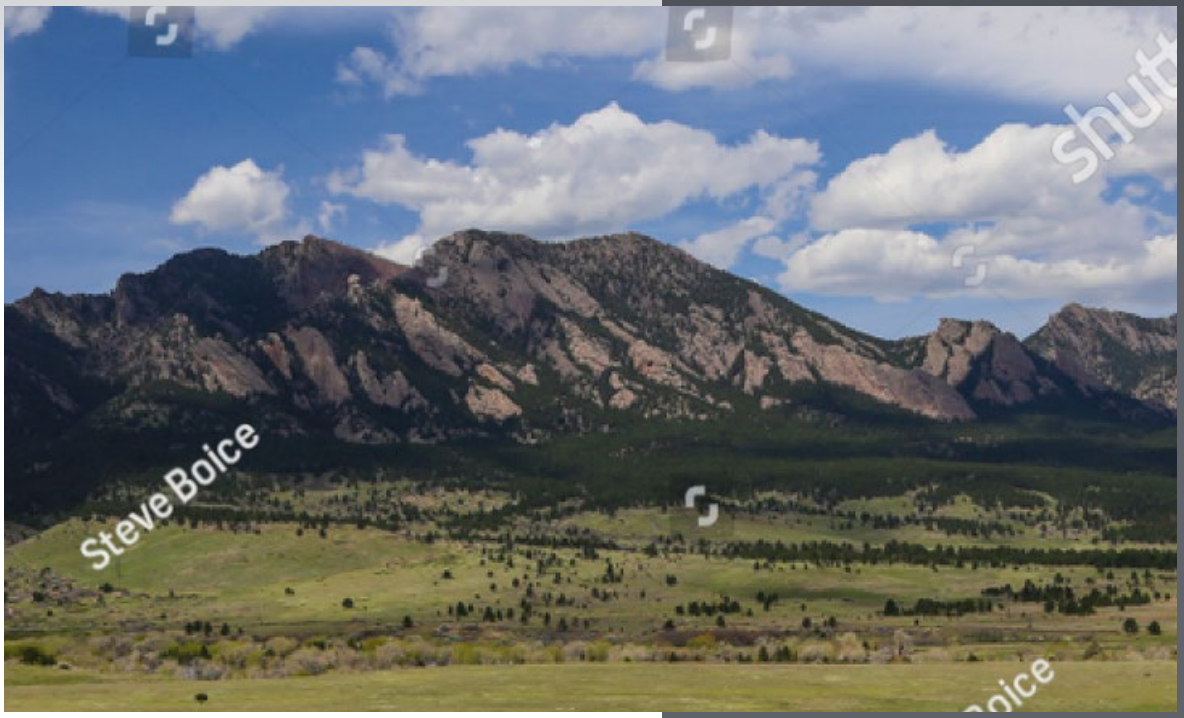
Photo of the reuse pumps at the wastewater treatment plant.

Key Performance Indicators

- Annual participation in each of Resource Central's Programs
- Annual participation in the Town's Water Rebate Program
- Annual non-revenue (water loss) water treated as a percentage of total treated water
- Annual potable water use
- Annual non-potable water use
- % annual turf reduction across all sectors

AIR QUALITY

SUSTAINABILITY
ACTION
PLAN



Town of Superior

Objective

Ensure clean, clear and healthy air for current and future generations.

Introduction and Current Conditions

The quality of our air impacts the way many people who reside, work and recreate in Superior live their lives. Poor air quality can negatively impact health, further accelerate climate change, and decrease visibility in the community. The Town is committed to improving air quality, both indoor and outdoor, by collaborating with local and regional partners and educating the community on simple steps that can make a positive impact.

Indoor Air Quality

The Environmental Protection Agency (EPA) lists indoor air quality as one of the top five environmental threats to public health. Formaldehyde, asbestos, radon, and tobacco smoke are common indoor air quality pollutants in the region. Other indoor pollutants that can be associated with health or irritating effects are carbon monoxide, nitrogen oxides, household and personal care products, microorganisms, and allergens. The strategies of this chapter focused on indoor air quality will help develop a better understanding of what indoor air quality threats exist in Superior and address them through education, policies and regulations.

Air Quality Goals

INDOOR

Reduce the number of buildings in Superior with bad indoor air quality.

OUTDOOR

Be an active contributor in the region for meeting federal outdoor air quality standards.

Outdoor Air Quality

Boulder County and its jurisdictions are a part of the Denver Metropolitan Nonattainment/North Front Range Area. This area currently exceeds national air quality standards for ozone. Ozone is an invisible, odorless gas that, depending on where it is in the atmosphere, either harms or protects us. Ground-level ozone or “bad” ozone is not emitted directly into the air, but is created by chemical reactions between other pollutants in the presence of heat and sunlight. Particulate matter (PM) is a mixture of solid particles and liquid droplets found in the air. Particulate matter levels in the region are variable and depend on many localized situations or seasonal events, such as wildfires. These particles come in many sizes and shapes and can be made up of hundreds of different chemicals. Most particles form in the atmosphere as a result of complex reactions of chemicals such as sulfur dioxide and nitrogen oxides, which are pollutants emitted from power plants, industries and automobiles.

Various daily activities contribute to poor air quality including driving and using landscape equipment. Strategies from other chapters of this plan, including Transportation and Climate, drive emission reductions that will contribute to cleaner and healthier air. The strategies of this chapter focused on outdoor air quality are those which were not captured in the other chapters, or that are a high enough priority to be reinforced here.

Strategy 1

Improve indoor air quality in all buildings in Superior.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
A1.1	Develop an education campaign on common threats to indoor air quality, habits and practices that can be adopted.			✓✓✓	∞ ✚	$
A1.2	Identify funding opportunities to provide radon mitigation tests to help families baseline radon issues, then provide income-tiered incentives for households that need to address radon issues.			✓	∞ ✚	$
A1.3	Identify or create incentives to switch away from natural gas to electric appliances, radon mitigation installation, other actions the improve indoor air quality.			✓✓✓✓	∞ ✚	$$
A1.4	Update building codes to drive adoption of fully electric buildings and radon exposure reduction measures in all sectors.			✓✓✓✓	✚	$
A1.5	Install HVAC Ionization systems at Town-owned facilities.			✓	✚	$$

NOTE: *Other chapters include strategies that align and overlap with the actions of this strategy (energy, climate)*

Internal · Community-wide · Equity and Inclusivity · Community Health and Resilience · Environmental Quality · Economic Sustainability

Strategy 2

Reduce our overall impact on poor air quality in the region.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
A2.1	Other chapters include strategies that align and overlap with the actions of this strategy (transportation, climate)					$
A2.2	Support and participate in studies into our geographic impact (such as fracking in neighboring counties) through partnerships.					$
A2.3	Leverage materials provided to the Town through the Simple Steps Better Air program with the Regional Air Quality Council (RACQ).					$
A2.4	Install Ozone measuring devices to be added to existing air quality sensors.					$$
A2.5	Encourage townwide VOC contribution reduction during peak hours through employee and community education.					$
A2.6	Reduce VOC contribution during peak hours by updating the municipal code and through code enforcement.					$
A2.7	Require all-electric equipment in future landscaping contracts.					$

NOTE: *Other chapters include strategies that align and overlap with the actions of this strategy (transportation, climate)*

Internal | Community-wide | Equity and Inclusivity | Community Health and Resilience | Environmental Quality | Economic Sustainability

Strategy 2 (continued)

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
A2.8	Support taxes and levies to purchase carbon offsets for air traffic outside of our area.					$
A2.9	Research and pursue carbon sequestration projects in public spaces.					$$$

Strategy 3

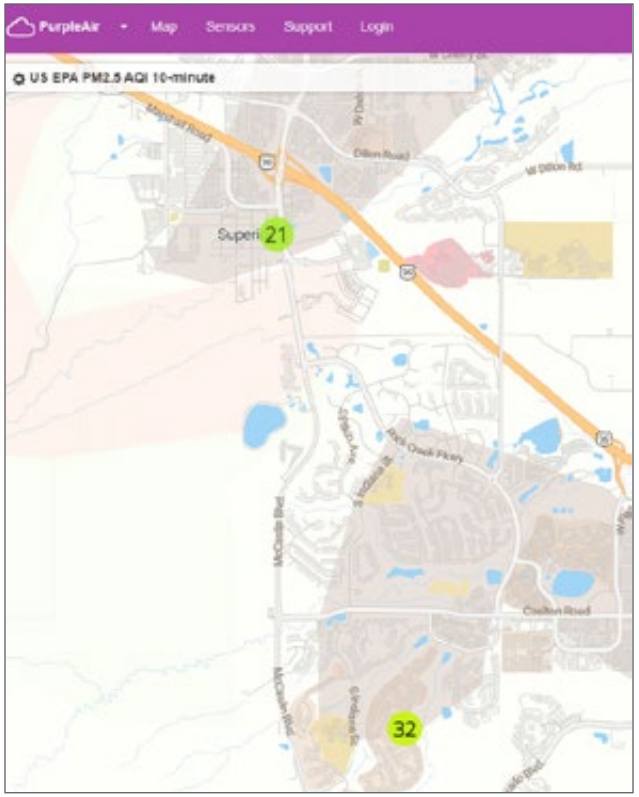
Improve the health of all who live and work in Superior.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
A3.1	Develop a Superior specific alert system to reduce outdoor exposure to bad air.					$$
A3.2	Collaborate with the county and other public health entities to create programs and develop solutions for equitable health management of indoor air quality.					$
A3.3	Work to find a solution to ensure all people employed in Superior can avoid bad air and bad air times.					$

Internal | Community-wide | Equity and Inclusivity | Community Health and Resilience | Environmental Quality | Economic Sustainability

Air Quality Monitoring in Superior

The Environmental Protection Agency created the Air Quality Index (AQI) to provide the public with consistent, daily reporting of air quality. The Town of Superior installed three air quality monitors throughout Town to provide localized air quality tracking. Residents can check the AQI for PM2.5 – inhalable particles, with diameters that are generally 10 micrometers and smaller – from home. Visit the PurpleAir sensor map and navigate to Superior to view today's air quality as it relates to PM2.5. When the air quality is poor, consider moving your activities inside. One action identified in this plan is to expand the air quality monitoring program to include Ozone, and to send alerts to residents when air quality is poor in Superior.



Key Performance Indicators

- Number of residents engaged in programs and outreach focused on Indoor Air Quality
- Number of households baselining radon data
- Baseline radon data from program participation
- Number of households participating in indoor radon mitigation
- Annual AQI for PM2.5 and Ozone

TRANSPORTATION

SUSTAINABILITY
ACTION
PLAN

Town of Superior

Objective

Support environmentally sustainable, equitable, and accommodating transportation choices.

Introduction and Current Conditions

The transportation sector is responsible for almost 40% of Town-wide GHG emissions. As the Town's population increases over the next decade, it is critical that programs and policies are put in place to curb transportation-associated emissions and provide sustainable transportation options to Superior residents that are both equitable and affordable. There are several existing plans in place that the strategies of this plan build upon.

Town of Superior 2014 Transportation Plan Update

The Town completed a Transportation Plan Update in 2014 that provides a long-range evaluation of future mobility needs and identifies solutions that guide the Town's future transportation investments. This plan is implemented by the Public Works Department and includes goals around creating a multi-modal transportation system to efficiently meet the local and regional transportation needs, while minimizing negative environmental and community impacts.

State of Colorado 2020 Electric Vehicle Plan

The Colorado Energy Office adopted an EV Plan in 2020 that sets a target of 940,000 light-duty EVs on the road in Colorado by 2030. The plan also aims to increase statewide EV infrastructure needed to support these light-duty vehicles and develops partnerships to support local governments in electrifying their fleets.

The strategies outlined in this plan complement the goals of the Transportation Plan Update and the Colorado EV Plan that are focused on electric vehicle adoption and reduction of single-occupancy vehicle use in the community. There are opportunities to reduce transportation-associated GHG emissions through building codes, program and partnership development, Town policies and community incentives and education.

Transportation Goals

MUNICIPAL GOAL

Transition 100% of the Town's passenger vehicles and light-duty trucks to electric by 2030

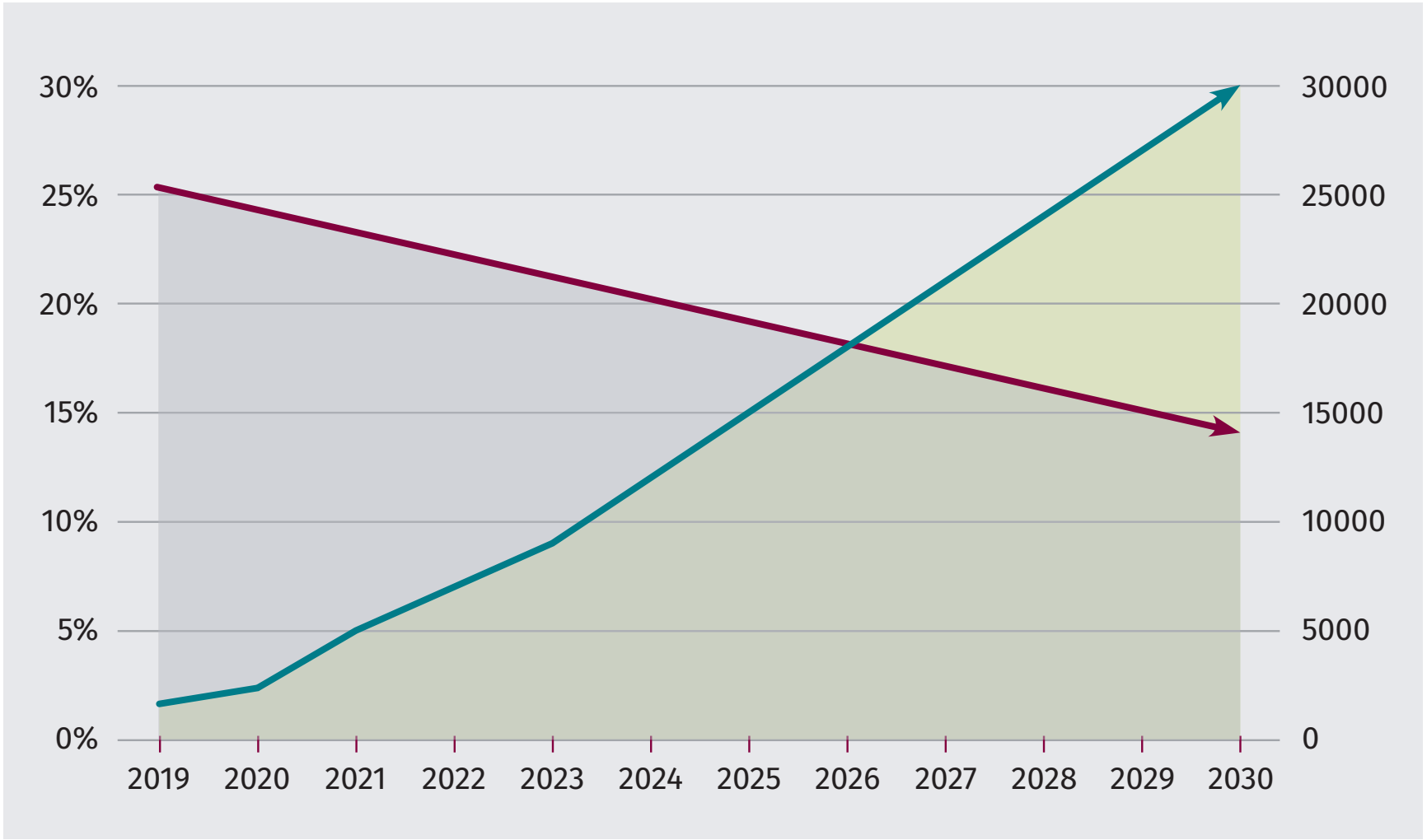
COMMUNITY GOAL

Increase the share of electric vehicles registered in Superior to 30% by 2030

COMMERCIAL GOAL

Increase the number of publicly available chargers on commercial properties.

Potential GHG Reduction from Community EV Adoption



Strategy 1

Implement programs, ordinances and policies focused on EV infrastructure development and community-wide EV adoption.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
T1.1	Play an active role in the Partner in Energy Boulder County Regional EV Collaboration planning effort.					$
T1.2	Implement plans and programs identified in the regional planning effort.					$$
T1.3	Adopt and implement an EV-ready building ordinance for new residential and commercial buildings.					$
T1.4	Adopt and implement building codes that require charging opportunities at multi-family units and workplaces, either during new construction or major renovation work.					$
T1.5	Identify opportunities to incentivize home and workplace EV charging including lower cost permitting and rebates.					$

Internal
Community-wide
Equity and Inclusivity
Community Health and Resilience
Environmental Quality
Economic Sustainability

Strategy 2

Reduce GHG emissions from Town operations including employee commuting and fleet use.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
T2.1	Continue adoption of electric vehicles for Town fleet with each budget cycle, as appropriate models and technologies become available. Moving forward, vehicles should not be replaced with vehicles that run on fossil fuels if an affordable alternative is available on the market.					$$
T2.2	Lead by example for the Superior business community by developing a Town of Superior employee Transportation Demand Management plan. This would include an inventory of existing programs that are not being leveraged by employees.					$
T2.3	Install EV charging stations in strategic Town locations for EV fleet integration. Departments replacing their vehicles need to work with the Sustainability Analyst to determine how much charging is needed and whether or not the need exists to expand utility infrastructure.					$$
T2.4	Create a fleet resiliency plan in the event of a grid outage to support an all-electric fleet.					$$

Strategy 3

Encourage reduction of single-occupancy vehicle use in the community.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
T3.1	Continue to work with regional partners on education campaigns focused on EV adoption, E-bikes, public transit and bicycle safety.					$
T3.2	Identify incentives to encourage the adoption of E-bikes.					$
T3.3	Review parking requirements in the land use code and assess the need for parking minimums associated with various land use categories.					$
T3.4	Institute a long-term Transportation Demand Management Plan with sustainable funding for Downtown Superior, Superior Marketplace and other commercial areas following the initial implementation of the Superior Modes program.					$$$
T3.5	Implement a free Superior electric-bus loop or Autonoumous EV shuttle operated by the Town or through an agreement with a third party to reduce in-town SOV trips and encourage use of public transit.					$$$

Internal
Community-wide
Equity and Inclusivity
Community Health and Resilience
Environmental Quality
Economic Sustainability

Electric Vehicle Charging in Superior

A common concern for consumers around electric vehicle purchases is the availability of charging in public places and at commercial locations. The Town of Superior strives to remove this barrier by increasing access to charging at Town-owned facilities and parks. Currently, the Town operates three EV charging stations, each of which have two charging ports. These are located at Community Park, Town Hall and Founders Park. Additionally, the Town will install several more chargers in early 2022 including one at the Superior Community Center. These chargers were funded in part by the Charge Ahead Colorado grant program administered by the Colorado Energy Office. The Town will continue to assess opportunities to install EV charging on Town-owned properties. Additionally, the Town will work with businesses to educate them on grant opportunities for charging infrastructure, and will educate residents about the ease of charging your vehicle at home!

COLORADO
Energy Office

Key Performance Indicators

- Number of public EV chargers available in Superior
- Number of electric vehicles registered in Superior as a percentage of the total
- Number of fleet vehicles electrified annually
- Number of public works projects completed annually that support the Transportation Plan Update
- Funds received annually to support multi-modal transportation and EV adoption

REGENERATION AND NATURAL SYSTEMS

SUSTAINABILITY
ACTION
PLAN

Town of Superior

Objective

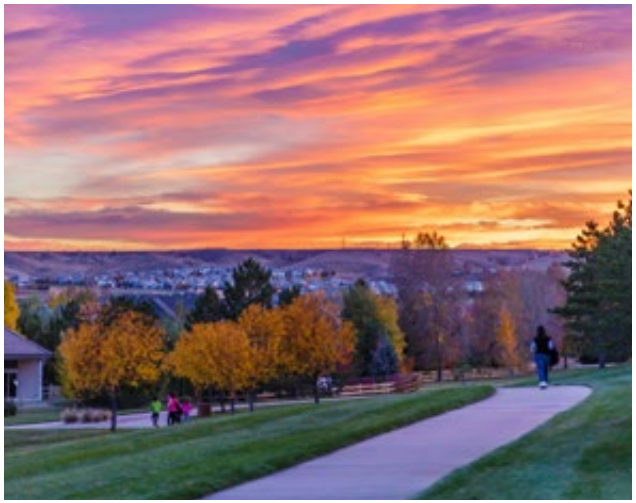
Establish and maintain healthy and vibrant ecosystems that sustain all species, along with our human population.

Introduction and Current Conditions

The Town is responsible for maintaining nearly 600 acres of parks and open space property which provide invaluable habitat for many species of wildlife and plan communities, offer miles of trail system and enhance livability and access to the outdoors for all Superior residents. Approximately 170 acres of the land the Town maintains is comprised of turf grass.

The Town developed a Parks, Recreation, Open Space and Trails Master Plan in 2021 with the purpose of "Encouraging vibrant and meaningful community by providing exceptional parks, facilities, open space, events and services." The PROST plan encompasses a broad range of focus areas from Growing and Maintaining the Park System to Recreation Programming.

The strategies in this plan seek support the strategies in the PROST plan associated with ecosystem health by integrating sustainable management practices into existing Town operations. The strategies also address opportunities to educate the public on the value of ecosystem health, and how they can make a difference.



Parks and Open Space Property

58

acres of owned natural open space

159

acres of natural open space through conservation easements

571

acres of developed open space

30

miles of trails

Strategy 1

Manage the Town's parks, open space, rights-of-way and other properties to maximize ecological health and biological diversity.

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
N1.1	Continue to test alternative pest and weed control management techniques on pilot sites (i.e goats, hand-pulling, natural alternatives).					$
N1.2	Promote best management practices for pest and weed control where possible in conjunction with Town practices.					$
N1.3	Expand the planting of pollinator-friendly native plants in parks and public landscapes where feasible and identify a location and funding for a xeriscape demonstration garden.					$$
N1.4	Develop and implement an Urban Forestry Management Plan to maintain the tree canopy in Town, as recommended in the Parks, Rec, Open Space and Trails.					$$$
N1.5	Assess and renovate ponds that may be approaching their viable lifespan.					$$$

Internal | Community-wide | Equity and Inclusivity | Community Health and Resilience | Environmental Quality | Economic Sustainability

Strategy 2

Promote community-wide stewardship and increase awareness of the value of ecosystem health

ACTION	ACTION DESCRIPTION	TIMEFRAME	TYPE	GHG REDUCTION POTENTIAL	PRIMARY CO-BENEFITS	COST
N2.1	Continue to provide environmental education programs for residents of all backgrounds and ages.					$
N2.2	Promote and provide resources on best management practices for pest and weed control to residents and commercial entities.					$
N2.3	Work with the Youth Climate Action Coalition to engage youth in sustainability and environmental projects year-round.					$
N2.4	Increase awareness of the impacts associated with the use of chemical fertilizers, pesticides and other chemicals including neonicotinoids on pollinator species and overall ecological health.					$

Internal | Community-wide | Equity and Inclusivity | Community Health and Resilience | Environmental Quality | Economic Sustainability

Superior Arbor Day

Superior has been a Tree City USA Community for 18 years and counting. Each year, the community celebrates Arbor Day, a nationally recognized event that promote increasing the tree population to enhance quality of life. Arbor day in Superior includes a tree planting by community volunteers, family activities focused around nature, and environmental stewardship education. In 2020 and 2021, Town staff adapted to the challenges of the global pandemic and organized a virtual arbor day for residents!

Key Performance Indicators

- Communitywide Tree Canopy Coverage
- # of environmental education programs and outreach events
- Annual use of chemical fertilizers, pesticides and other toxins on Town-owned property

APPENDIX A

Strategy Prioritization and Implementation Plan

APPENDIX B

Overview of Planning and Engagement Process