Roseville Climate Equity Action Plan Update

Public Works Department

Public Works, Environment, and Transportation Commission

28-October-2025

Agenda

- Introductions
- Why a climate equity action plan is important
- Project Timeline
- Existing city climate goals
- Foundational Documents review
  - Climate Vulnerability Report
  - Greenhouse Gas Inventory Report
  - Ground Cover Report
  - Renewable Potentials Study
  - Climate Baseline Assessment
- Community Engagement
- Collaboration with Ramsey County
- Call to Action

Consultant Team

making change personal
paleBLUEdot LLC

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PhD Candidate
Climate Literacy: "Using hope to heal eco-grief and spur climate action"

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95 + Communities, impacting **one in every 30 people in the United States**

Midwest: 85 Communities
Minnesota: 52 Communities

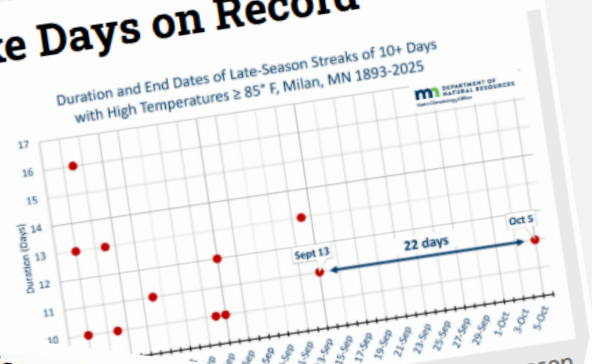
Why a Climate Equity Action Plan?

Why a Climate Equity Action Plan?

The Latest Run of Summer-like Days on Record

Most of Minnesota experienced a significant warm spell from late September in to early October 2025, but in western parts of the state the prolonged streak of consecutive, summer-like days occurred more than three weeks later than than any comparable period on record.

On first glance, it may be ha
of extremely warm weathe
outstandingly warm early
had the warmest Septem
through-October in 130
2023 had an intense La
another one a full mor
cancellation of the Tw
forgiven for not reco



Several Days of Heavy Rain in Southern Minnesota (August 14-18, 2025)

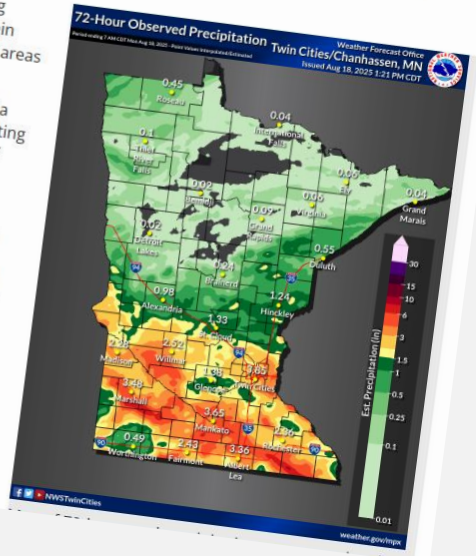
Numerous waves of heavy, generally slow-moving thunderstorms combined to drop 2-4 inches of rain across most of southern Minnesota, with isolated areas receiving six inches or more.

The heavy rains formed near the northern edge of a warm and very humid air mass, where old and existing rain and thunderstorm complexes created a web of temperature boundaries that helped focus storm activity.

During this period, thunderstorms were scattered in both space and in time, such that different areas experienced different "events." For instance, the first heavy rains in the state occurred late on the 14th and early on the 15th, in northwestern, and also west-central Minnesota. These were different from the storms that formed later in the day toward the Twin Cities.

In general though, the event progressed as follows:

- Isolated to scattered heavy thunderstorms dropped 1-2 inches of rain over small areas of



Weather and Climate News

The Associated Press · Kingston, Jamaica · October 28, 2025 12:28 PM · **UPDATED:** OCTOBER 28, 2025 2:39 PM

Category 5 Hurricane Melissa brings flooding and catastrophic winds to Jamaica

In First Six Months, Cost of Weather Catastrophes on Pace to Break a Record

The Trump administration stopped updating a database tracking the costs of the country's worst disasters. A group of scientists has revived it.

Listen to this article · 5:30 min Learn more | Share full article | 177

Why a Climate Equity Action Plan?

- **Goal-setting**
  - Set **specific and measurable goals**
  - Bring existing goals up to date
  - Align with other city goals
- **Alignment with state and county goals**
  - Using same framework as county and state
  - Inter-governmental cooperation
  - Opportunities for funding
- **Focus our efforts locally**

Clean transportation

Connect all people through a safe, equitable, and sustainable transportation system.

Climate-smart natural and working lands

Manage our lands to reduce GHG emissions and sustain resilient landscapes.

Resilient communities

Prepare communities with resources to build a more resilient future for themselves.

Clean energy and efficient buildings

Expand the use of carbon-free energy and create healthy, comfortable buildings that are cheaper to operate and pollute less.

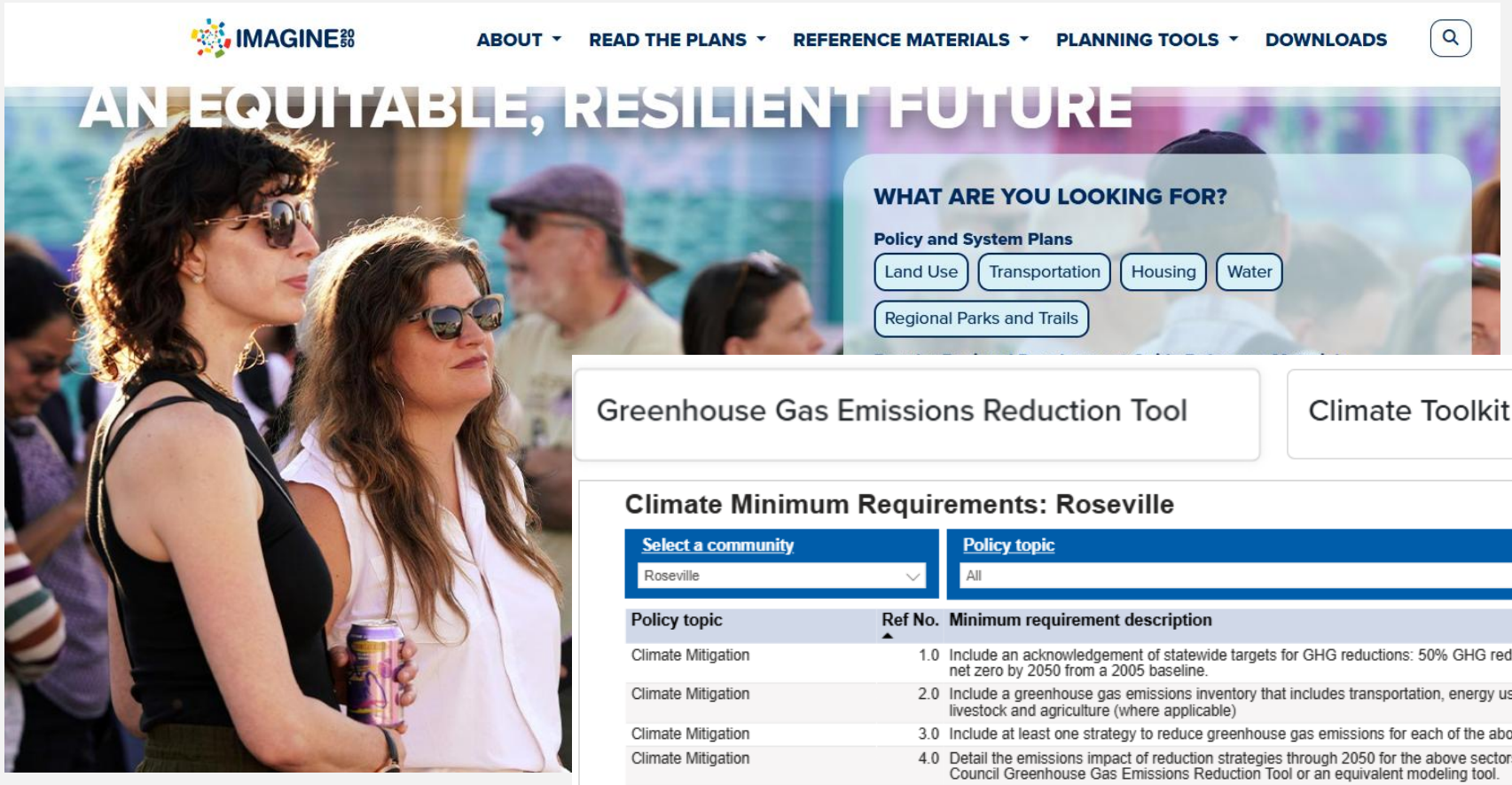
Healthy lives and communities

Protect the health and wellbeing of all Minnesotans in the face of climate change.

Clean economy

Build an economy that addresses climate change and creates equitable opportunities.

Why a Climate Equity Action Plan?



Greenhouse Gas Emissions Reduction Tool

Climate Toolkit (Coming Soon)

Climate Minimum Requirements: Roseville

Select a community: Roseville

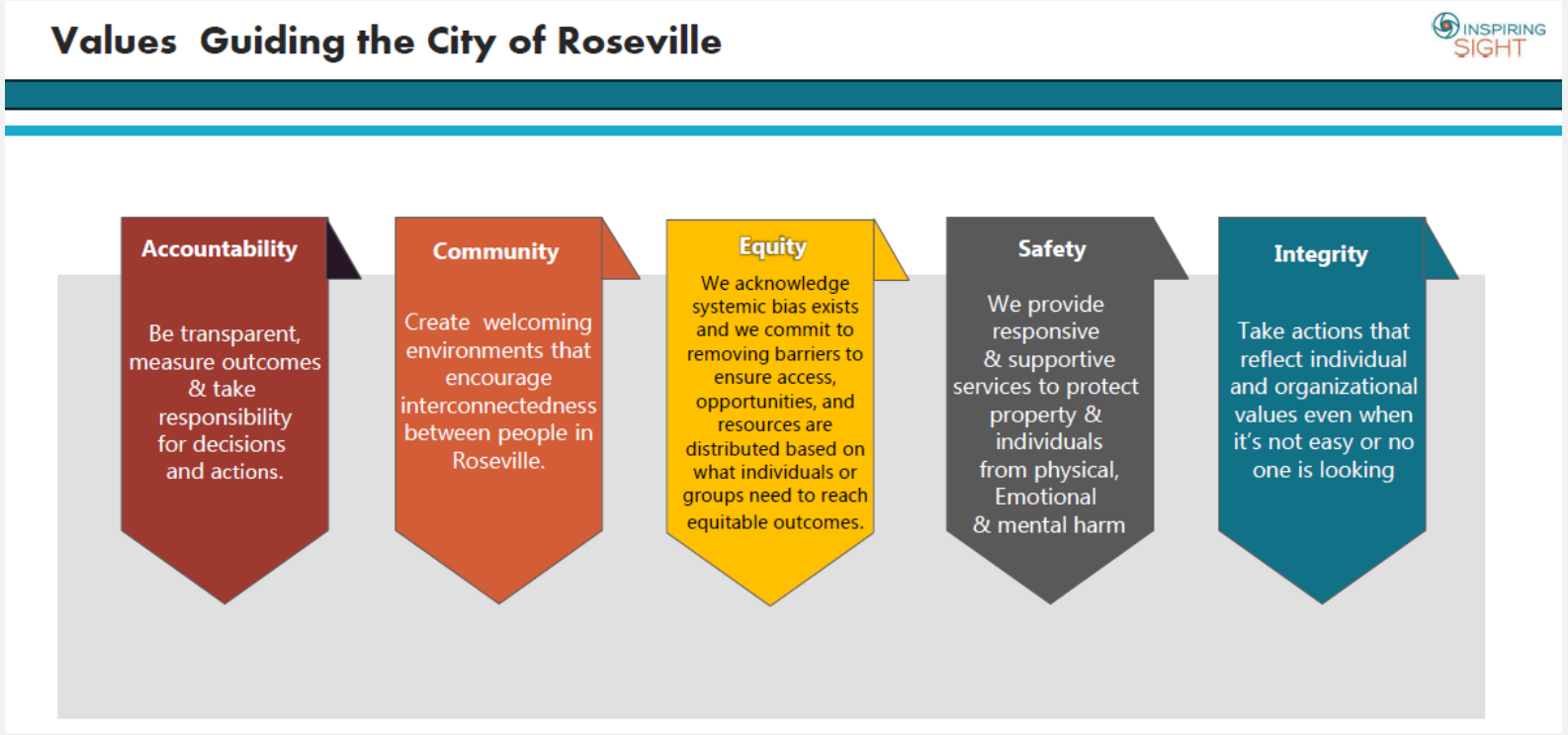
Policy topic: All

Clear Filters

Policy topic	Ref No.	Minimum requirement description	Resource(s) for this requirement
Climate Mitigation	1.0	Include an acknowledgement of statewide targets for GHG reductions: 50% GHG reduction by 2030 and net zero by 2050 from a 2005 baseline.	Acknowledging State Climate Goals
Climate Mitigation	2.0	Include a greenhouse gas emissions inventory that includes transportation, energy use, solid waste, and livestock and agriculture (where applicable)	GHG Emissions Reduction Tool
Climate Mitigation	3.0	Include at least one strategy to reduce greenhouse gas emissions for each of the above sectors	
Climate Mitigation	4.0	Detail the emissions impact of reduction strategies through 2050 for the above sectors using the Met Council Greenhouse Gas Emissions Reduction Tool or an equivalent modeling tool.	GHG Emissions Reduction Tool
Climate Adaptation	5.0	Identify social, built, and natural systems vulnerabilities to the following climate hazards: Extreme Heat and Localized Flooding	Extreme Heat Map Tool
Climate Adaptation	5.0	Identify social, built, and natural systems vulnerabilities to the following climate hazards: Extreme Heat and Localized Flooding	Localized Flood Map Screening Tool
Climate Adaptation	6.0	Include strategies to address social, built, and natural systems vulnerabilities for the following climate hazards: Extreme Heat and Localized Flooding	Climate Adaptation Minimum Requirements Guide
Climate Adaptation	7.0	Include strategies that support local food systems to increase access to healthy food, food security, and community resilience	

Why Equity?

- Equity is one of Roseville's core values
- "Climate Change is inextricably linked to the challenge of creating a more equal world"
- Roseville is home to people who are extra-vulnerable to the effects of climate change: **non-English speakers, the elderly, young children, people experiencing poverty and economic stress.**



Project Timeline

Phase 1
Aug-Dec 2025

- Existing conditions documentation, assessment, preliminary goals
- Community Survey
- Engagement and Goalsetting
- Draft action Development

Phase 2
Jan-Apr 2026

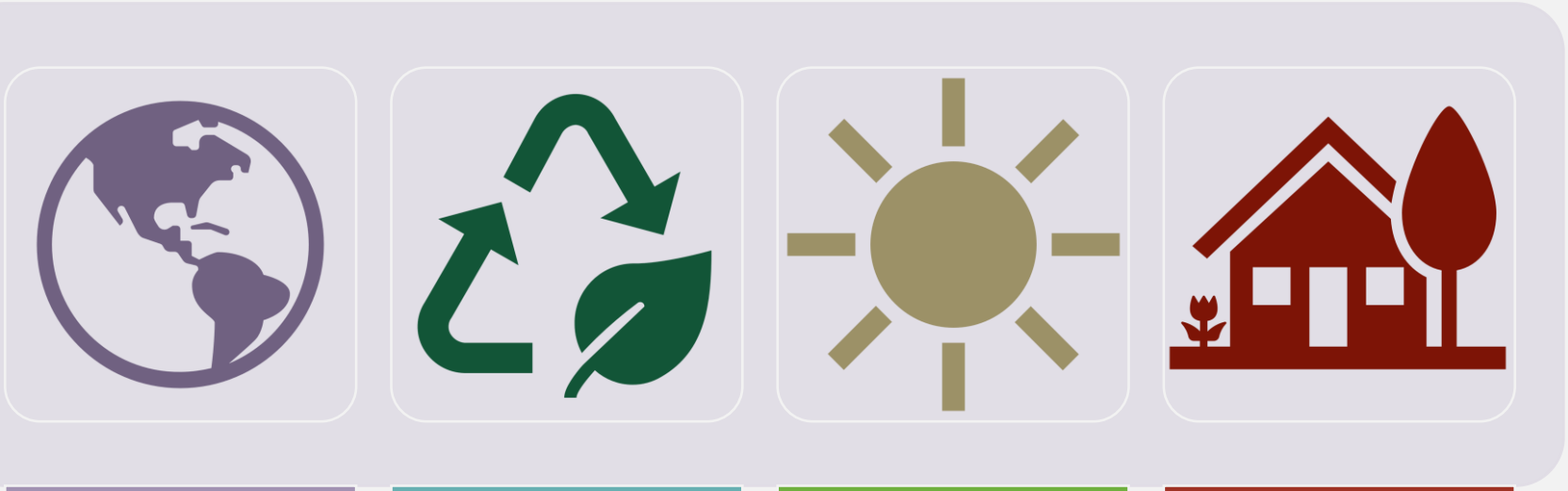
- Community Engagement – action development
- Community, Equity, and Staff workshops
- Commission and Council updates
- Draft Climate Equity Action Plan Development

Phase 3
Apr-Jun 2026

- Community Engagement – Draft Plan Input
- Finalize Climate Equity Action Plan
- Submit report to MCPA
- Implementation Support Tools

Planning Process

Roseville Sustainability – Comprehensive Plan 2040 Goals



80% Reduction in GHG Emissions by 2050

Approximate reduction to date: **35%**

100% City Operations electricity from renewable sources by 2040

25% City Operations electricity from on-site generation by 2040

We generate approximately 5% from on-site solar

Produce enough in-bound solar electricity to meet **10% of citywide electricity** use by 2030

Foundational Documents

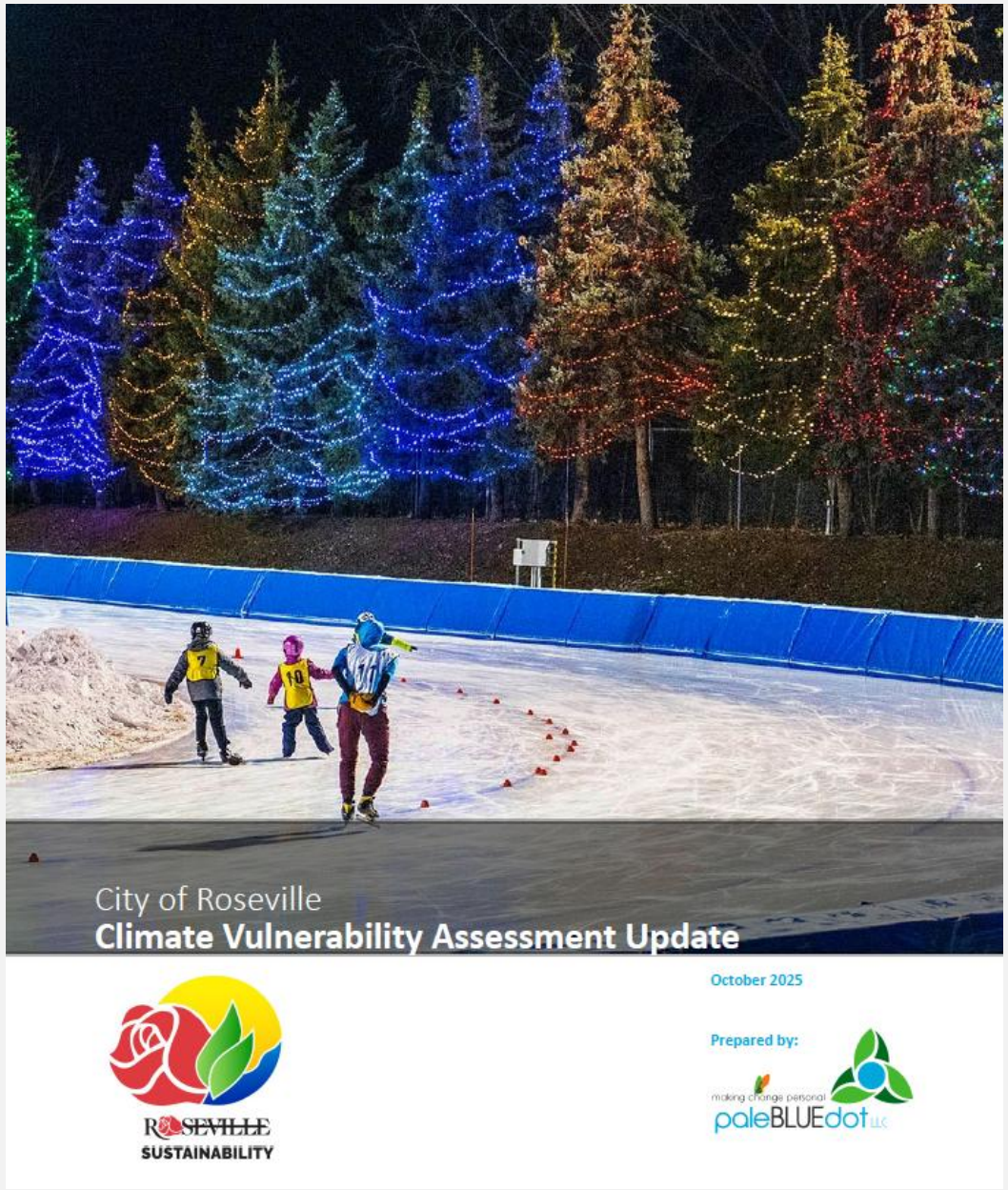
Foundational documents

Climate Vulnerability Assessment

Update to our 2018 Climate Vulnerability Assessment

Purpose:

- Identify **climate change impacts** Roseville is at a high risk of experiencing (or already experiences)
- Identify **which people in our city are most vulnerable** to those effects of climate change

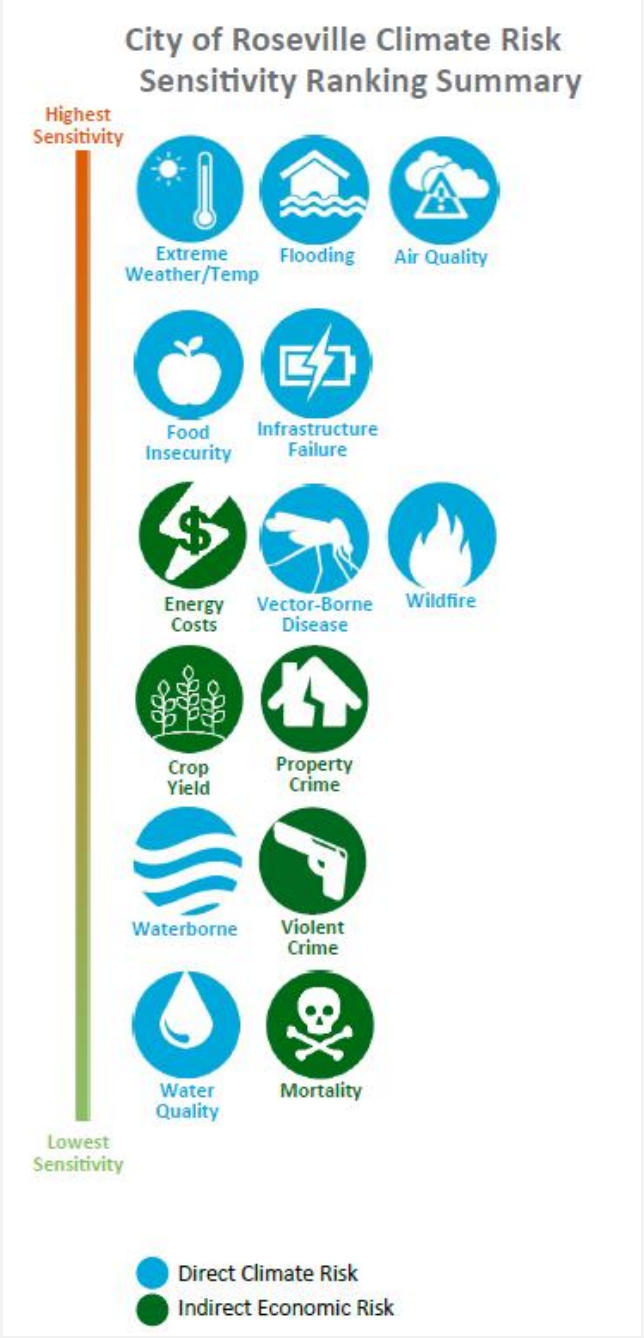


Foundational documents

Climate Vulnerability Assessment

Inequity of Economic Impacts Through 2100[1,2]

Climate change will amplify the uncertainty and disparity of upcoming economic results. The anticipated economic consequences are not evenly distributed. As depicted in the graphic below, the economic burdens on the poorest 10% could be 5 to 10 times greater than those faced by the wealthiest 10% in the community.



Climate Vulnerability Assessment

Projected changes in annual average temperatures and growing seasons will result in a change in the overall climate of City of Roseville. Summertime conditions for mid-twenty first century in City of Roseville are projected to be similar to the conditions currently felt 350-400 miles or further to the South. By the end of the century, summertime temperatures in City of Roseville will be similar to those felt 750 miles further to the South.[1, 2]

10 Miles Distance southward City of Roseville's climate experience moves every year.

Which is equal to moving **145 Feet** every day

City of Roseville
By 2100[1, 2]
Average Summer High:

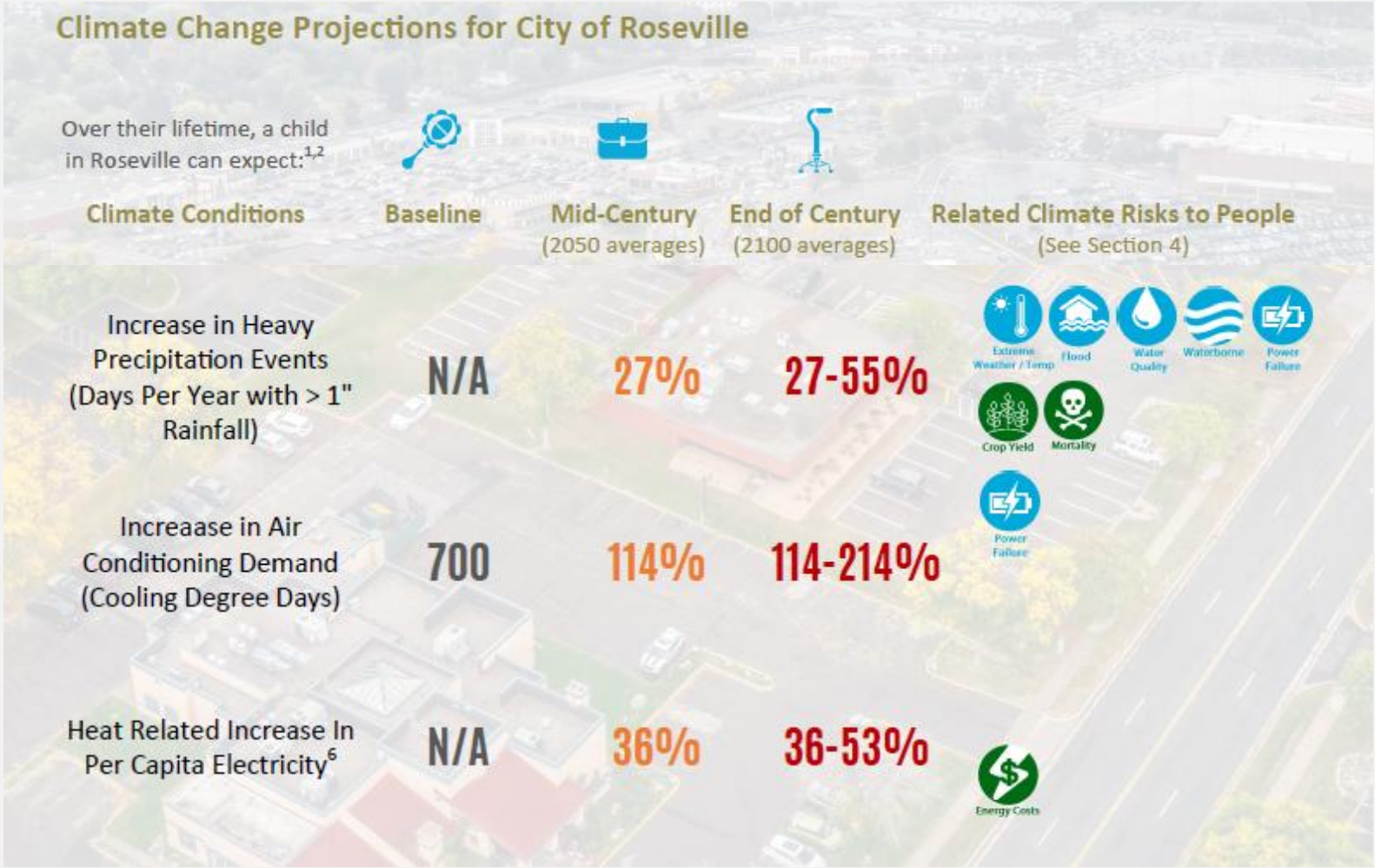
+ 10.5°F

Climate Vulnerability Assessment

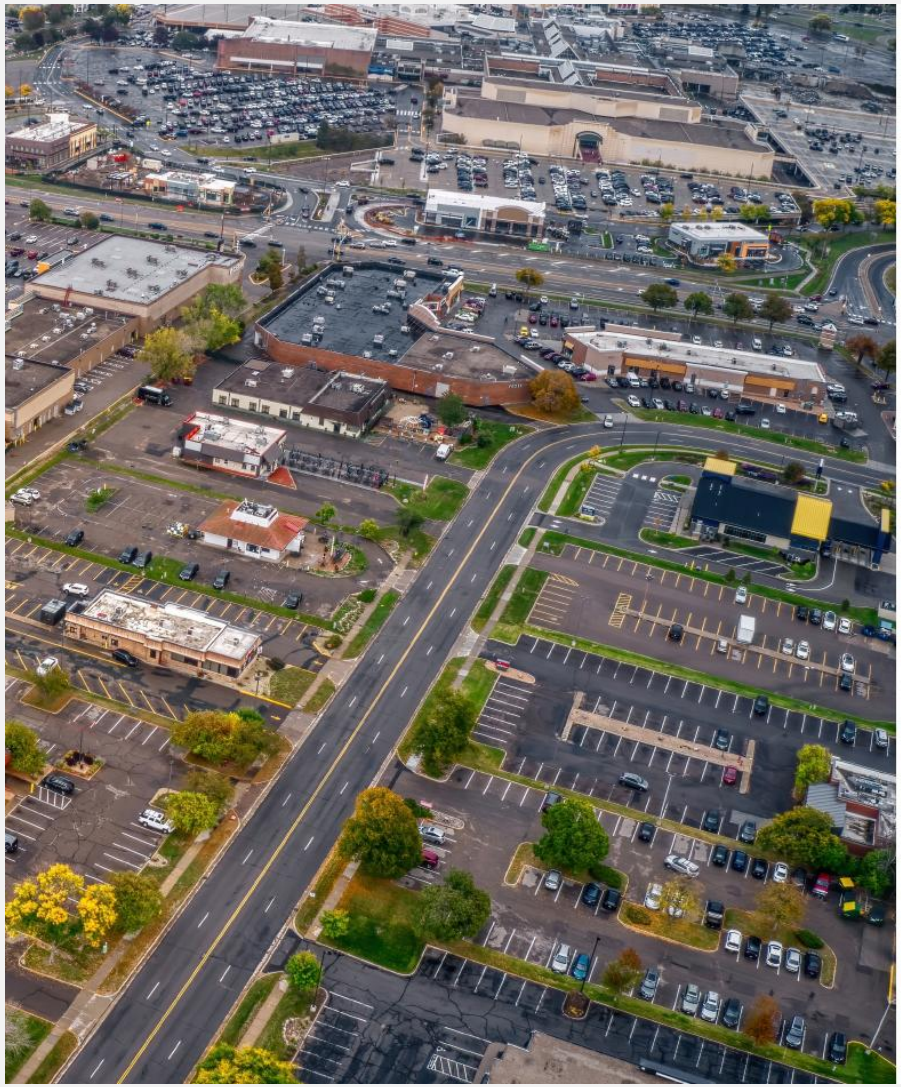
Climate Change Projections for City of Roseville

Over their lifetime, a child in Roseville can expect:[1,2]	Baseline	Mid-Century (2050 averages)	End of Century (2100 averages)	Related Climate Risks to People (See Section 4)
Average Daily Maximum Temperature	55° F	62°F	62°F - 67°F	Extreme Weather / Temp, Air Quality, Food Insecurity, Water Quality, Power Failure, Crop Yield
Number of Days Per Year with Maximum > 95° F	2	23	23 - 52	Extreme Weather / Temp, Air Quality, Food Insecurity, Water Quality, Power Failure, Wildfir, Crop Yield, Mortality, Energy Costs, Property Crime, Violent Crime
Number of Days Per Year With Minimum < 32° F	154	131	130 - 107	Vector-Borne, Power Failure
Change in Growing, Allergy, & Tick/ Mosquito Season[3,4]	9 days	23 days	24-37 days	Vector-Borne
Average Annual Precipitation [5]	26"	24%	7-36%	Flood, Vector-Borne, Waterborne, Crop Yield

Climate Vulnerability Assessment



Greenhouse Gas Inventory Report



ROSEVILLE
SUSTAINABILITY

Community Greenhouse Gas Emissions Inventory

October 2025
Revised 10/10/25

Prepared by:

making change personal
paleBLUEdot LLC

Purpose:

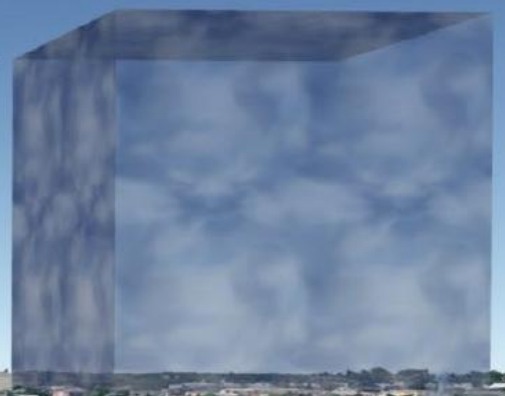
- Measures **activities creating emissions** in Roseville
- **Forecasts emissions under future scenarios** – 1.5 and 2.0 degrees Celsius global temperature increases

Greenhouse Gas Inventory Report

2016 By The Numbers	2024 By The Numbers	8 Year Trend
GHG Emissions	GHG Emissions	GHG Emissions
540,741	408,237	-132,504 -24.50%
15.34 MT Per-Capita	11.37 MT Per-Capita	-3.97 MT Per-Capita
13.61 MT / Job	12.32 MT / Job	-1.30 MT/ Job
0.1864 MT / $1,000 GDP	0.1394 MT / $1,000 GDP	-0.05 MT / $1,000 GDP
Population	Population	Population
35,254	35,905	+651 +1.85%
GDP	GDP	GDP
$2,901,199,735	$2,929,216,554	+$28,016,819 +0.97%
$82,294 GDP Per-Capita	$81,582 GDP Per-Capita	-$712 GDP Per-Capita
Employment	Employment	Employment
39,722	33,144	-6,578 -16.56%

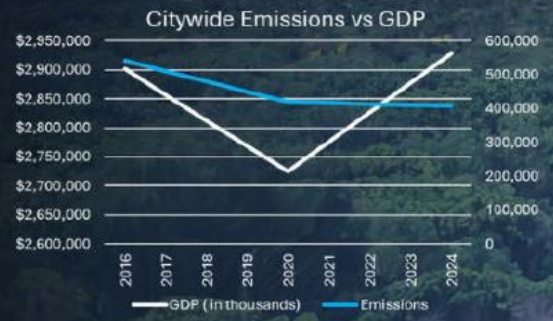
How Large Are Community wide GHG Emissions?

The City's total emissions for 2024 are equal to **8 Billion** cubic feet of human-made greenhouse gas. This volume of atmosphere is equal to a cube **2,001** feet on each face shown here North of Minnesota Highway 36 at Fairview Ave as viewed from Reservoir Park over 3 **miles away**.



City of Roseville GHG Emissions Overview

Emissions in the City of Roseville dropped 24.5% from 540,741 metric tons in 2016 to 408,237 in 2024. During this time, the population grew 1.9%, leading to a 25.9% decrease in emissions per person. Meanwhile employment in Roseville remained steady and GDP grew 1%, indicating economic growth can happen in the City of Roseville while GHG emissions decrease.

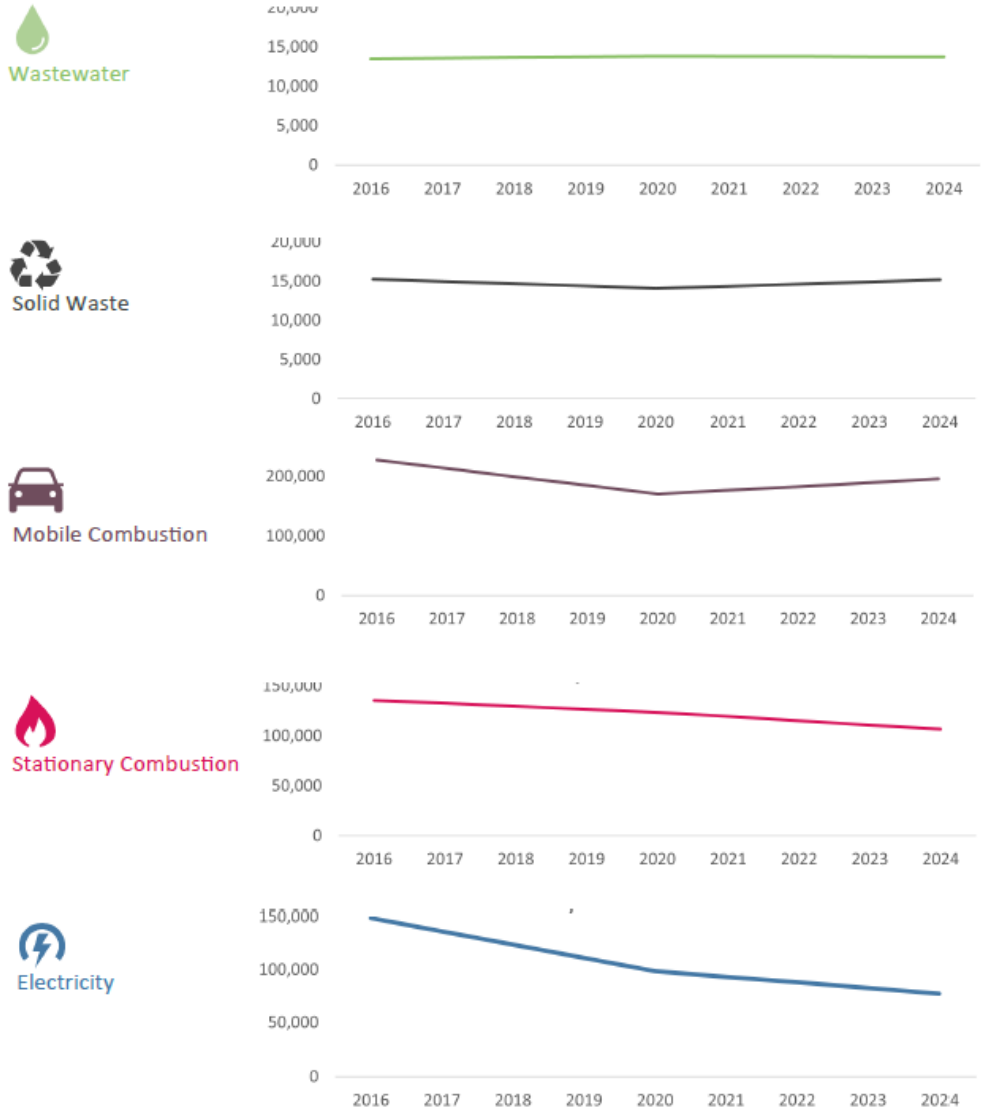


Citywide GHG by Sector

- 18.9% Electricity
- 26.1% Stationary Combustion
- 47.9% Mobile Combustion
- 3.7% Solid Waste
- 3.4% Wastewater

Greenhouse Gas Inventory Report

Citywide Sector GHG Trend Lines



Findings in Brief: Citywide

	2016	2024	Change	
Wastewater	13,504 Metric Tons	13,753 Metric Tons	+1.8%	✗
Solid Waste	15,274 Metric Tons	15,194 Metric Tons	-0.5%	−
Mobile Combustion	227,547 Metric Tons	195,448 Metric Tons	-14.1%	✓
Stationary Combustion	135,498 Metric Tons	106,528 Metric Tons	-21.4%	✓
Electricity	148,918 Metric Tons	77,313 Metric Tons	-48.1%	✓

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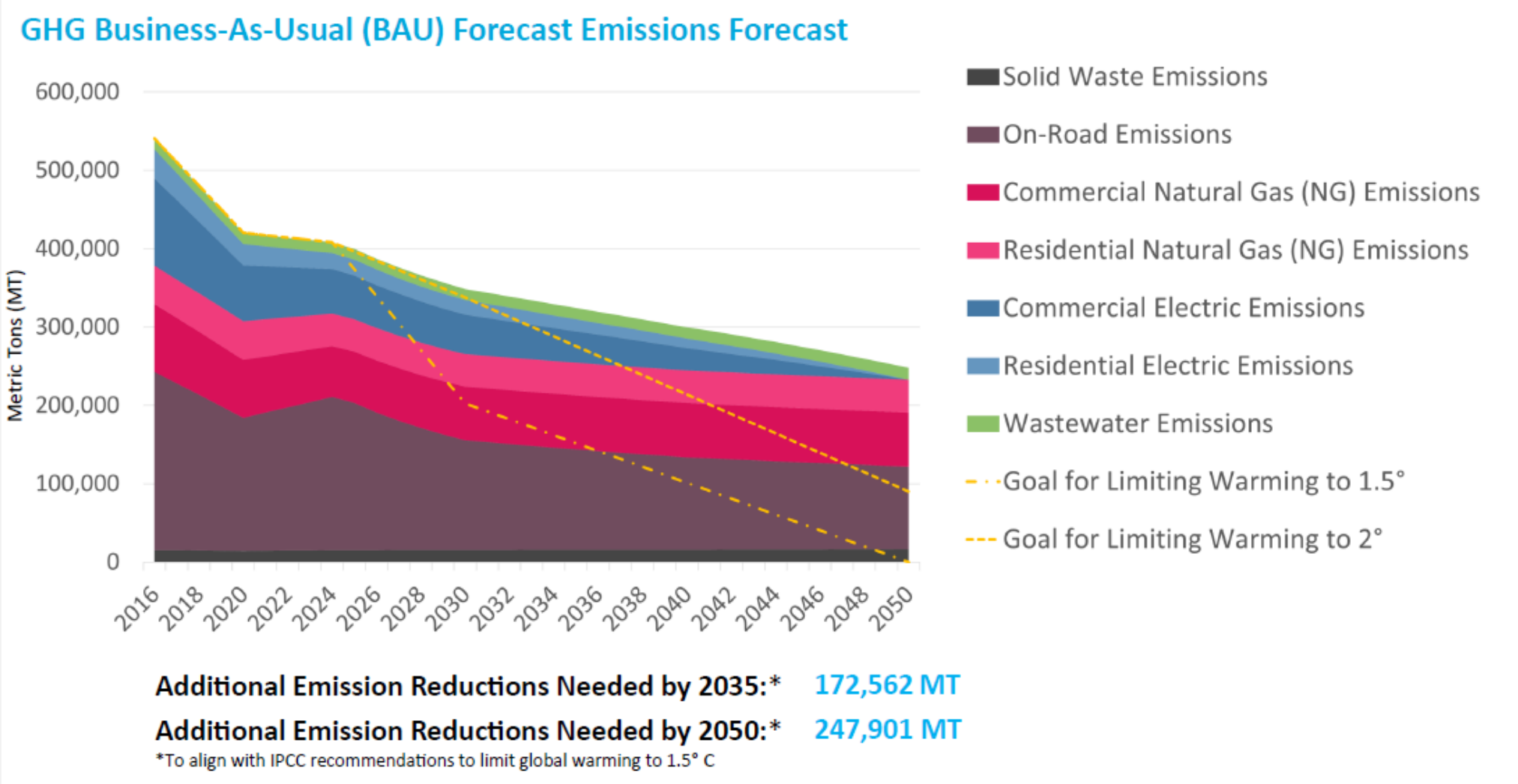
City of Roseville Greenhouse Gas Emissions Inventory 2-4

Greenhouse Gas Inventory Report

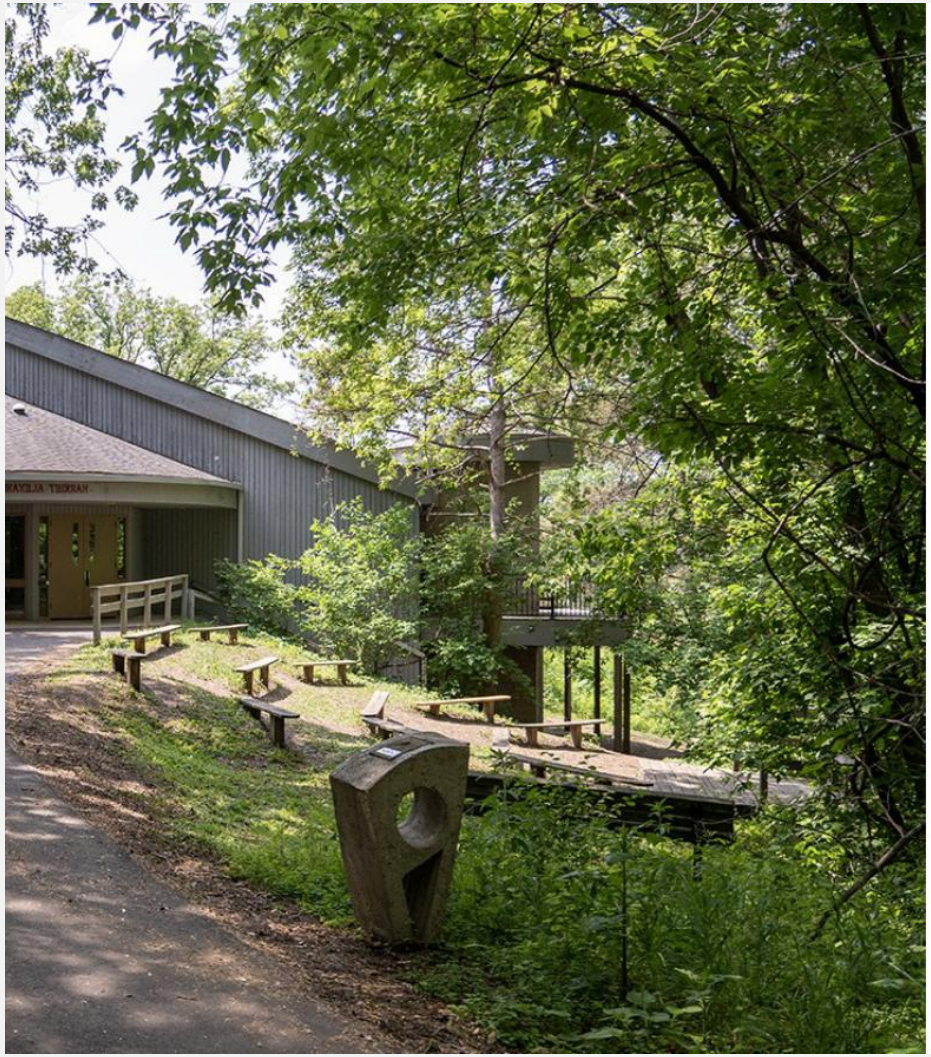


Additional Emission Reductions Needed by 2035:* 172,562 MT

Additional Emission Reductions Needed by 2050:* 247,901 MT

*To align with IPCC recommendations to limit global warming to 1.5° C

Ground Cover Study



Purpose:

- Measures **tree canopy, impervious surfaces,** and other types of land cover across the city.
- Recommends **goals for tree planting and native plant coverage**

Ground Cover Study

Ground Cover Breakdown by Type

28.6% Trees/Shrubs
25.6% Grass Cover
3.2% Bare Ground
5.9% Water
15.1% Light Impervious
21.7% Dark Impervious

Comparing Lawn and Native Grass Coverage

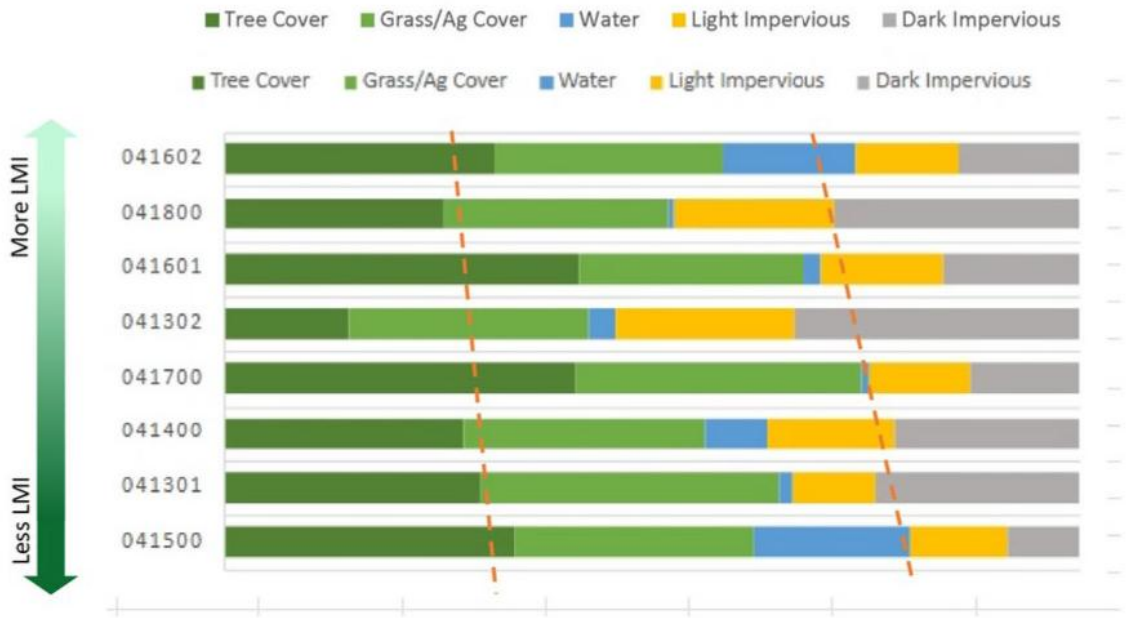
83.7% Lawn
16.3% Native Grass + Garden

Comparing Dark Impervious Surface Coverage

11.8% Building - Dark
19.4% Building - Light
47.2% Pavement - Dark
21.6% Pavement - Light

GROUND COVER CHARACTERISTICS BY CENSUS TRACT

ORGANIZED BY SHARE OF LOW INCOME POPULATION

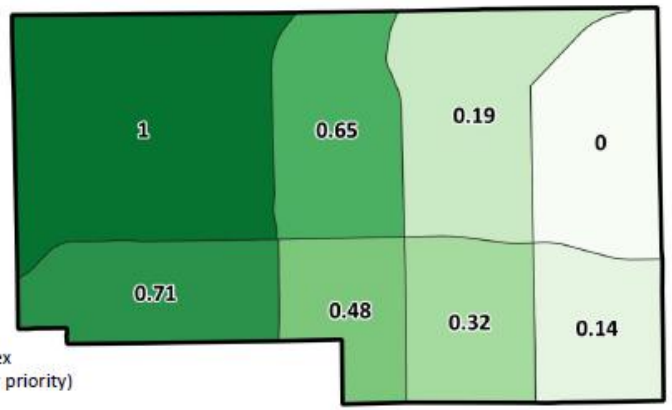


Findings

Prioritization based on

Potential for New Trees

Higher values represent increased potential for tree planting based on physical capacity (available open space, open lawn areas, etc). Available open space does not include land in use as agriculture.



Prioritization Index
(higher # = higher priority)

Prioritization based on

Low Income Density (equity adjustment)

Higher low income density values represent higher potential for increasing environmental equity of tree canopy cover and benefits.

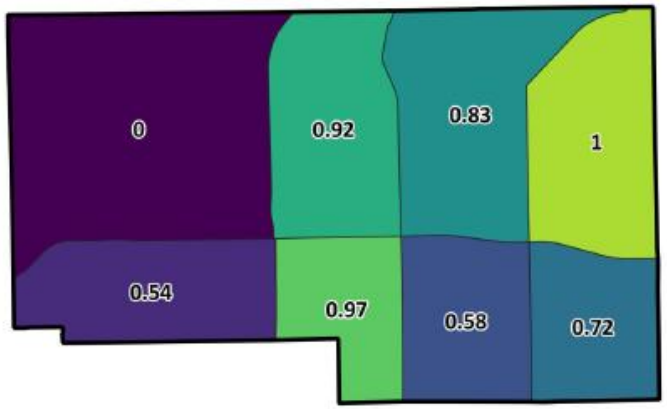
Prioritization Index
(higher # = higher priority)

Findings

Prioritization based on

Population Density

The greater the population density, the greater the opportunity for tree planting to impact community members. Population densities shown are estimates based on US Census data by tract. Higher numbers represent higher prioritization based on this category.

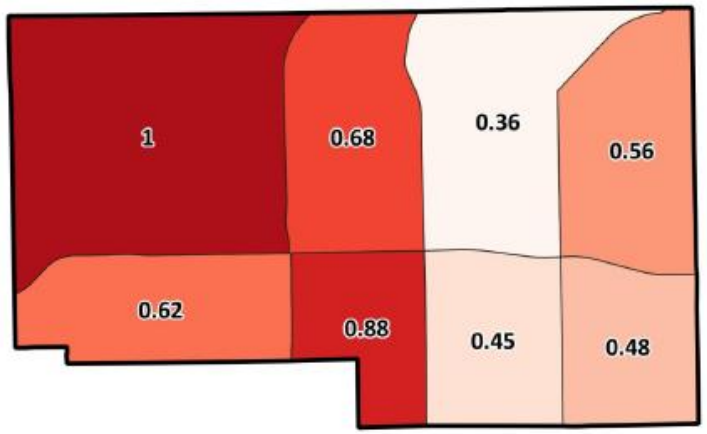


Prioritization Index
(higher # = higher priority)

Prioritization based on

Heat Island Reduction Need

Higher heat island reduction need values represent increased potential for reducing current and future heat island impacts through tree planting.



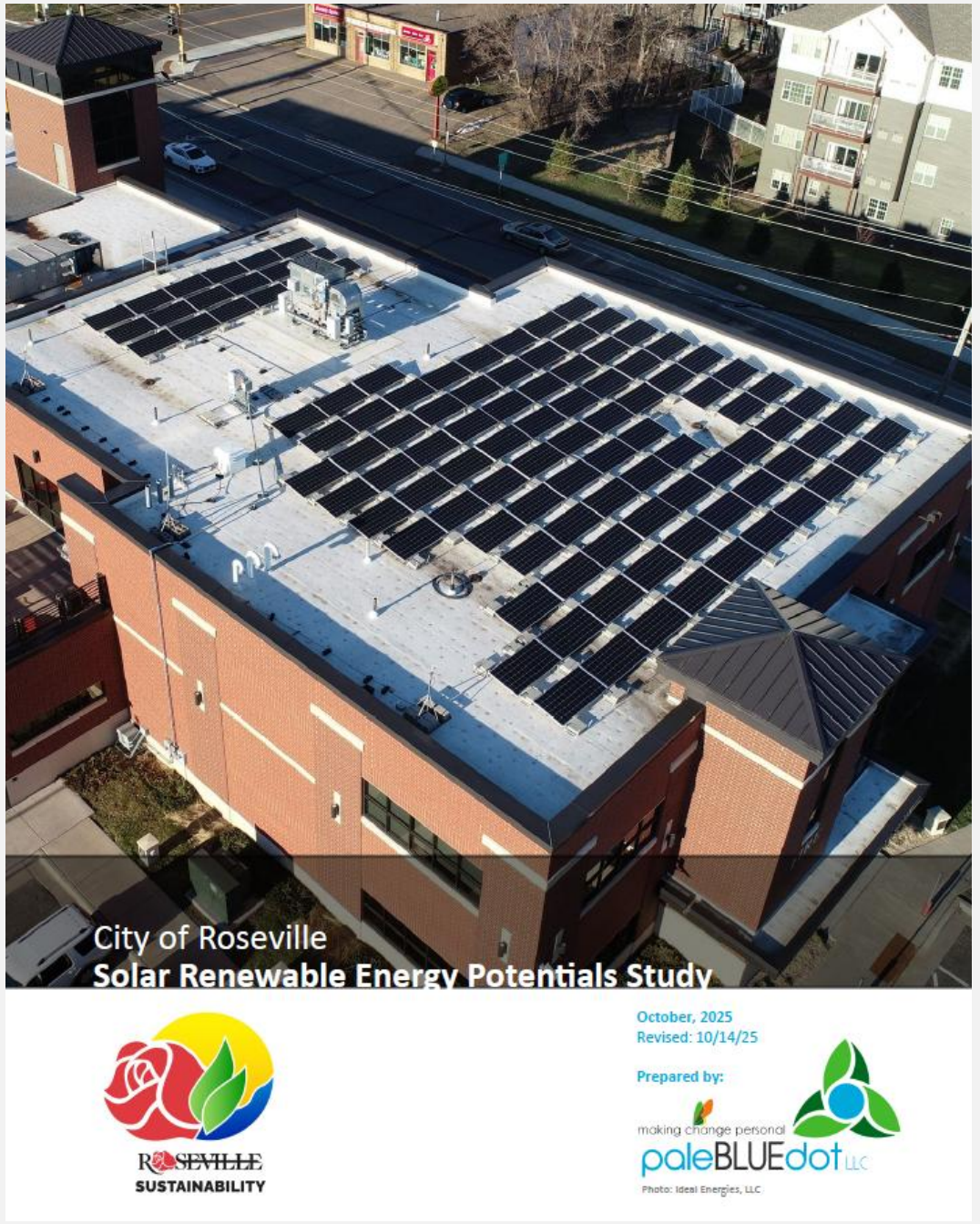
Prioritization Index
(higher # = higher priority)

Foundational documents

Renewable Energy Potentials Study

Purpose:

- Determine rooftop capacity for solar panels
- Economic benefits of expanding solar energy installations
- Benefits to Low to Medium Income Households



Renewable Energy Potentials Study

City Wide Solar Potentials

Methodology and Data

This section calculates the total technical Capacity and total generation potential for rooftop solar in the City. Total solar PV potential is custom calculated for the City of Roseville using methodology based on the National Renewable Energy Laboratory (NREL).[1] The community specific calculations in this study use raw data from NREL provided dataset(s) as outlined in "Input Data" below.

Input Data
The National Renewable Energy Laboratory (NREL) provides roof plane data based on lidar readings from the U.S. Department of Homeland Security between 2006-2014. We used the "Small Building Suitability" dataset to estimate suitable building rooftops, by zip code, for solar installations up to 54,000 square feet.[2] For zip codes which extend significantly beyond the boundary of the community, capacities are calculated as a pro-rata share of the zip code in based on the estimated share of the zip code's population living in the city.

Tilt and Orientation
Roof plane's tilt and orientation are crucial for evaluating PV suitability. The "Small Building Suitability" data obtained from NREL noted above includes roof tilts in 5 categories:
- Flat (0° - 9.5°)
- Low (9.5°- 21.5°)
- Mid-Low (21.5° – 34.5°)
- Mid-High (34.5° – 47.5°)
- High (47.5° – 60°)

Orientations in the data are West, Southwest, South, Southeast, East, and flat. Roofs tilted over 60° and certain orientations are excluded.

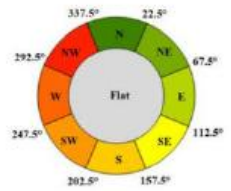
Generation Potential
Using NREL's data, we calculate the "Nameplate Capacity" based on the panel assumptions below. Tilted rooftops assume 85% solar panel coverage, reserving 15% for setbacks and obstructions. Flat roofs assume spacing to avoid self-shading based on the tilt described in the panel assumptions below. We use this to estimate potential installed capacity (KW dc) for each roof class.

Panel Assumptions:

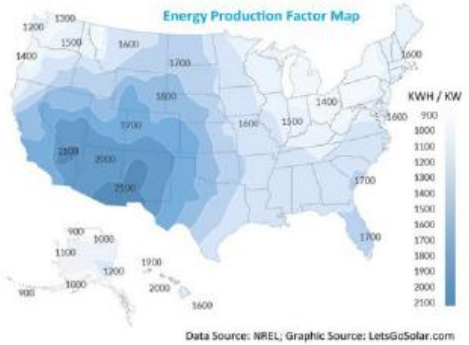
Rated Capacity:	410 watt
Dimensions:	68" x 45"
Tilt used on flat roofs:	15°

Solar Energy Estimates
To estimate the energy generation for each roof tilt and orientation class, the above calculated total potential installed capacity (KW dc) is multiplied by the specific yield factor or "energy production factor" (kWh produced to KW capacity installed) for the region. Adjustments account for system and shading losses: 15% for flat roofs and 30% for angled roofs.

Capacity & Market Scenarios
We outline the Technical Rooftop Capacity, representing total potential. To set a solar goal, we pinpoint the "optimized" capacity for better financial returns and gauge potential market demand in the community. Further details on these capacities and market scenarios are provided later.



Azimuth Classifications
Graphic source: NREL



Data Source: NREL; Graphic Source: LetsGoSolar.com

1: Rooftop Solar Photovoltaic Technical Potential in The United States: A Detailed Assessment, NREL, https://www.nrel.gov/docs/fy16osti/65298.pdf
2: Small Building Suitability dataset, NREL, https://data.nrel.gov/submissions/47

City Wide Solar Potentials

Rooftop Technical Capacity In Roseville

Technical Capacity represents the total rooftop solar PV potential assuming economics and grid integration are not constraints. Based on the input and methodology previously outlined, there are an estimated 2,687 total buildings in Roseville, of those, it is estimated that over 2,040 are "solar suitable" buildings.

These solar suitable buildings have an estimated 3,751 roof planes which are either flat or with an azimuth orientation of East, Southeast, South, Southwest, or West, with a total estimated square footage of 1.2 million square feet. The chart below shows a further breakdown of roof orientation by roof tilt classifications as well. The potential installed technical energy Capacity for all rooftops meeting selection criteria totals 16.5 Megawatts DC.

Rooftop Generation Capacity In Roseville

Generation Capacity represents the total amount of energy generation potential of the total Technical Capacity of the City. As previously outlined, the generation Capacity is calculated using City-specific annual energy production factor (annual KWH production/KW nameplate Capacity) which is based on the region's weather patterns and annual insolation levels (exposure to sun's energy). This energy production factor is then modified by estimated system losses by azimuth and estimated system losses by roof tilt.

The chart below illustrates the total generation potential by roof azimuth and by roof tilt classifications. The Grand Total rooftop solar PV energy generation potential for the City is 289,747,000 KWH annually. This is estimated to be approximately 82.4% of the City's total electric consumption.

Technical Rooftop Capacity In Roseville

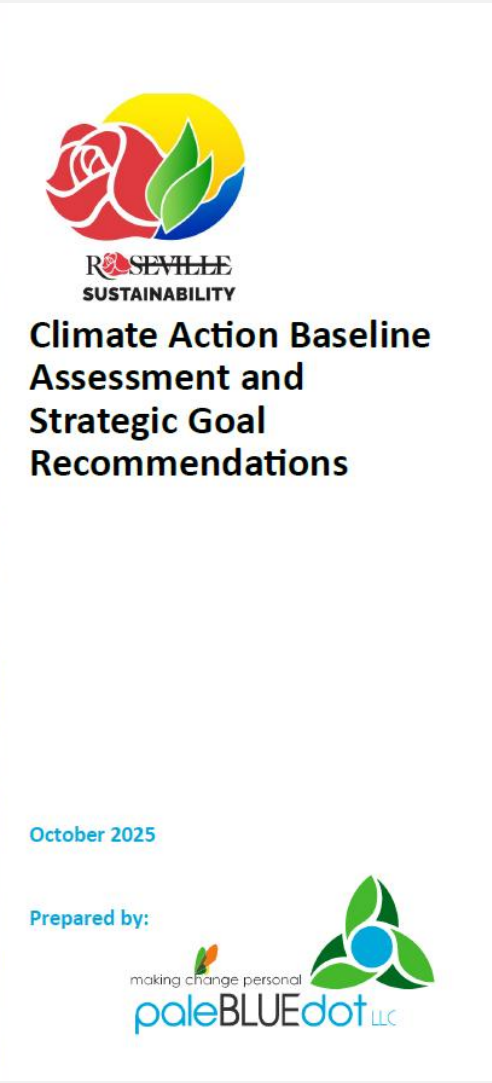
			Flat	Low Tilt	Mid-Low Tilt	Mid-High Tilt	High Tilt
Subtotal Flat							
Suitable Buildings	6,344	7.03%	6,344	-	-	-	-
Suitable Roof Planes	4,072	7.03%	4,072	-	-	-	-
Square Footage	2,668,049	14.85%	2,668,049	-	-	-	-
Capacity (KW dc)	27,914	11.30%	27,914	-	-	-	-
Generation (KWH)	37,963,212	13.10%	37,963,212	-	-	-	-
Subtotal South Facing							
Suitable Buildings	39,800	43.97%	-	12,153	23,198	4,433	15
Suitable Roof Planes	25,544	43.97%	-	7,800	14,899	2,845	10
Square Footage	8,134,604	45.28%	-	2,495,878	4,955,255	682,128	1,342
Capacity (KW dc)	85,116	34.20%	-	26,113	51,844	7,157	23
Generation (KWH)	115,752,289	39.93%	-	35,513,429	70,507,480	9,705,880	25,500
West + Southwest							
Suitable Buildings	22,126	24.43%	-	4,739	14,699	2,683	8
Suitable Roof Planes	14,202	24.43%	-	3,042	9,434	1,722	5
Square Footage	1,596,760	20.22%	-	774,595	2,451,665	369,747	753
Capacity (KW dc)	61,007	20.22%	-	13,138	41,584	6,272	13
Generation (KWH)	68,328,006	23.58%	-	14,715,063	46,576,525	7,024,114	14,305
East + Southeast							
Suitable Buildings	22,319	24.64%	-	5,557	13,674	3,080	8
Suitable Roof Planes	14,325	24.64%	-	3,566	8,776	1,977	5
Square Footage	1,563,887	19.84%	-	886,145	2,265,037	411,871	834
Capacity (KW dc)	60,450	19.78%	-	15,031	38,419	6,986	14
Generation (KWH)	67,703,514	23.37%	-	16,834,179	43,029,139	7,824,356	15,840
Grand Total			**Subtotal: Flat Roof**	**Subtotal: Low Tilt**	**Subtotal: Mid-Low Tilt**	**Subtotal: Mid-High Tilt**	**Subtotal: High Tilt**
Suitable Buildings	90,592		6,344 7.03%	22,449 24.79%	51,572 56.93%	10,197 11.26%	31 0.03%
Suitable Roof Planes	58,143		4,072 7.00%	14,408 24.78%	33,099 56.93%	6,544 11.26%	20 0.03%
Square Footage	17,963,299		2,668,049 14.85%	4,156,618 23.14%	9,671,958 53.84%	1,465,746 8.16%	2,929 0.02%
Capacity (KW dc)	234,487		27,914 11.90%	54,282 23.15%	131,847 56.23%	20,394 8.70%	50 0.02%
Generation (KWH)	289,747,021		37,963,212 13.10%	67,062,671 23.15%	160,111,144 55.26%	24,554,390 8.47%	55,644 0.02%
Share of Community Electricity Use Met Through Total Potential Technical Generation		82.4%					

Foundational documents

Baseline Assessment and Goal Recommendations

Purpose:

- Synthesize information from previous documents
- Introduce potential goals for CJAG, staff, and community to react to and update



Baseline Assessment and Strategic Goal Recommendations

Introduction

Preliminary Sector Strategic Goals

In line with the data outlined in the foundational documents, the following are initial goals for each of the Climate Equity Action Plan sectors. These are preliminary and meant to aid collaborative planning, empowering team members to shape final plan goals. More information can be found in the sections of this document.

Clean Transportation (click for section)
Enhancing the resilience of our community's mobility while reducing environmental impacts of transportation.

Potential 2035 Goals:

- **54%** drop in GHG emissions from 2016
- **5%** fewer vehicle miles traveled
- **2.4x** Increase in public transit use
- **15%** registered electric vehicles citywide
- **10%** fuel switching from diesel to renewable fuels

Clean Energy and Buildings (click for section)
Reducing the environmental impacts through increased energy efficiency, use of renewable energy, and reduction of on-site combustion.

Potential 2035 Goals:

- **52%** drop in GHG emissions from 2016
- **20%** on-site or purchased renewable energy
- **5%** less electricity use
- **25%** less on-site fuel combustion
- **15%** fuel switching from on-site combustion
- **25%** less energy poverty

Resilient Communities (click for section)
Increasing our community's resilience to climate impacts like flooding while reducing impacts associated with wastewater treatment and solid waste generation.

Potential 2035 Goals:

- **5%** drop in GHG wastewater emissions from 2016
- **5%** Reduction of wastewater
- **14%** drop in GHG solid waste emissions from 2016
- **5%** less solid waste generated
- **20%** Increase in solid waste diversion (organics + recycling)
- **Enhancing** resilience of critical facilities and storm-water systems

Baseline Assessment and Strategic Goal Recommendations

Healthy Lives (click for section)
Increasing the health of our community in the face of climate change through healthy community connections and by improving food access and security, and addressing hunger.

Potential 2035 Goals:

Supporting
community health amid climate change

Increasing
production and access to local food

Reducing
hunger and food waste

Climate Smart Lands (click for section)
Supporting community adaptation through expanded green infrastructure and enhanced ecosystem resilience.

Potential 2035 Goals:

10%
more tree canopy coverage

5%
less turf / more native grass

3%
less dark impervious surfaces

Promote
climate-resilient land management

Clean Economy (click for section)
Increasing the preparedness of our businesses and workforce and leveraging economic opportunity of climate action.

Potential 2035 Goals:

Grow
equitable climate workforce and entrepreneurship

Help
local businesses build climate resilience

Establish
sustainable funding for climate action implementation

Baseline Assessment and Strategic Goal Recommendations

Clean Energy and Buildings

Strategic Goal Recommendations— Citywide

Based on the reviews outlined in this section, we recommend the City of Roseville explore establishing the following citywide Clean Energy and Buildings Strategic Goals:

CEB 1: Improve total Citywide building energy efficiency 5% for electricity and 10% for natural gas by 2035.

CEB 2: Increase customer owned or purchased renewable electricity to 20% of citywide building electric use by 2035 (10% on-site and 10% green source purchase - existing is 5% on-site and 6% green source purchase).

CEB 3: Achieve "fuel switching" of 15% of existing buildings using on-site fossil fuel combustion to electrification or renewable fuels by 2035. (20% of existing households use electric heat according to census and natural gas utility data. Goal would result in 35% of households using electric heat).

CEB 4: Reduce share of population living in high energy poverty from 40% to 30% by 2035.

Strategic Goal Recommendations - Municipal Operations

Based on the reviews outlined in this section, we recommend the City of Roseville explore establishing the following Clean Energy and Buildings Strategic Goals:

CEB 5: Improve total government building energy efficiency by 10% by 2035 (electricity and natural gas, including water and wastewater infrastructure).

CEB 6: Achieve 15% government building thermal “fuel switching" from on-site fossil fuel combustion to electrification by 2035.

CEB 7: Meet 100% of municipal operations energy needs through renewable sources and 25% of electricity needs from on-site renewable generation by 2040.

Projected Sector Emission Reductions Achieved by Draft Strategies

41.5% Reductions Achieved + BAU Reductions

3.7% Natural Gas Energy Efficiency

3.9% Fuel Switching

0.4% Electricity Energy Efficiency

4.0% Increased Renewable Energy

46.5% Remaining Emissions

BAU = 'Business-as-Usual' Reductions are anticipated reductions resulting from existing requirements or commitments, which are outside the scope of this plan.

Community Engagement

Community website

- Community Survey
- Area to share climate stories, art, and video diaries
- Baseline documents
- Community meeting information

HOW TO GET INVOLVED NOW:

TAKE THE SURVEY

SHARE YOUR CLIMATE STORY

Creating the City of Roseville's Climate Equity Action Plan

The City is developing a Climate Equity Action Plan over the next year. This plan will improve upon the City's existing emissions reduction goals set forth in Roseville's 2040 Comprehensive Plan, adopted in 2020, and develop additional goals to align with or exceed the State of Minnesota climate framework and Ramsey County climate goals. The City's current goal is to reduce city-wide emissions by 80% by 2050, relative to 2005 levels, which now lags behind the goals of the state and other neighboring cities.

This strategic roadmap will engage stakeholders such as local businesses, government agencies, and residents to guide efforts to increase overall sustainability, climate resilience, and improve energy efficiency in the community. The plan is being developed through facilitation and support by the City's Climate Action Plan consultant, paloBLUEdot.

Roseville Climate Action Baseline Documents

A significant amount of research is currently being done as a foundation to the City's work in preparing the Climate Equity Action Plan. The research and preliminary recommendations that will be included in these documents are intended as a starting point for the collaborative planning effort which will be creating the plan. Please "click" on each document below to view.

Climate Action Baseline Assessment

ROSEVILLE WANTS YOUR INPUT!

Take The Roseville Climate Survey

Please help the City identify perceptions, needs, opportunities, priorities, and issues for the community. Take the City of Roseville's Climate Action Survey and help shape the Climate Equity Action Plan. Please share the survey with your neighbors, friends, and family!

TAKE THE SURVEY!

Participate in the Roseville Climate Stories Project

While facts and statistics about climate change are essential, they are not enough. We also need to hear the voices of those imagining a better future!

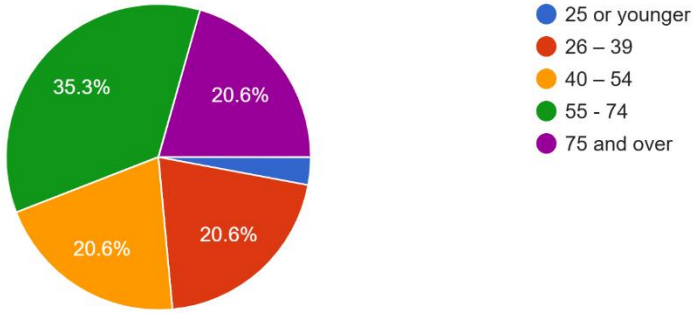
Through stories, videos, or art, you can participate in the Climate Stories Project and share your hopes, ideas, and dreams for a climate-resilient Roseville.

Your story is a powerful way to be heard,

Community Survey: 34 responses so far

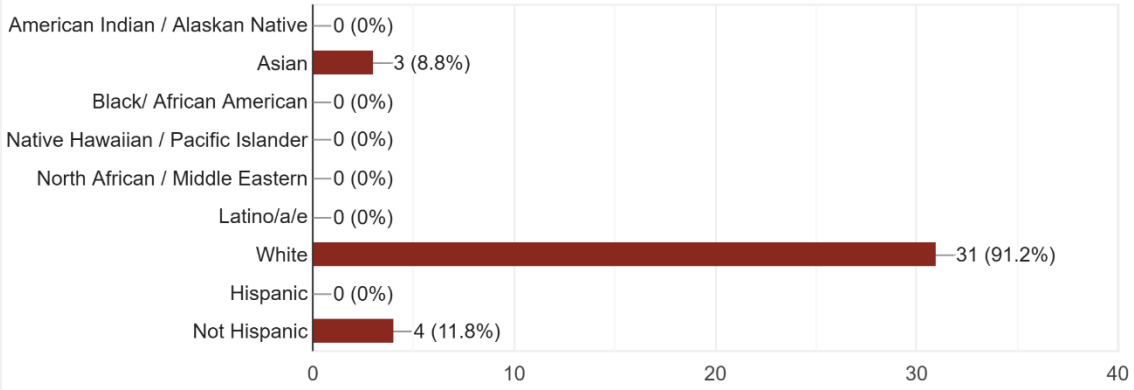
What age category describes you?

34 responses



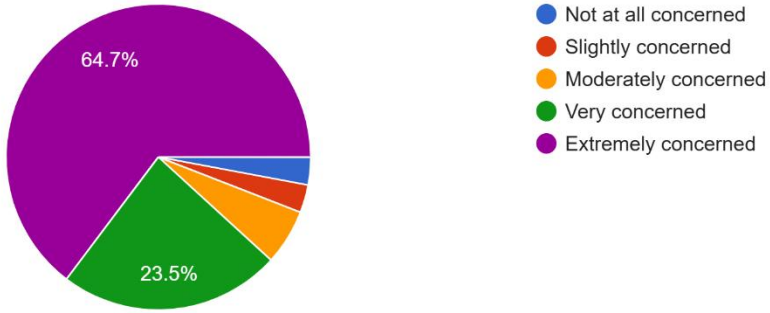
What is your race/ethnicity? (select any and all that apply)

34 responses



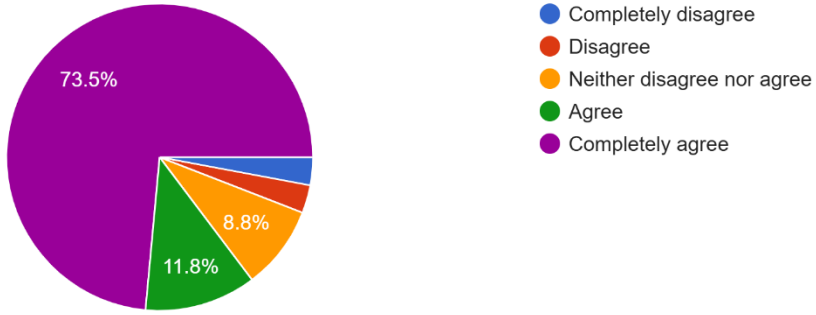
How concerned are you about climate change in general?

34 responses



How much do you agree with the following statement: “Roseville should be a leader when it comes to proactively addressing climate change.”?

34 responses



Community Engagement Event 11/2

Roseville Climate Equity Action Plan Community Event

By City of Roseville Sustainability Follow

1700 Kent Street

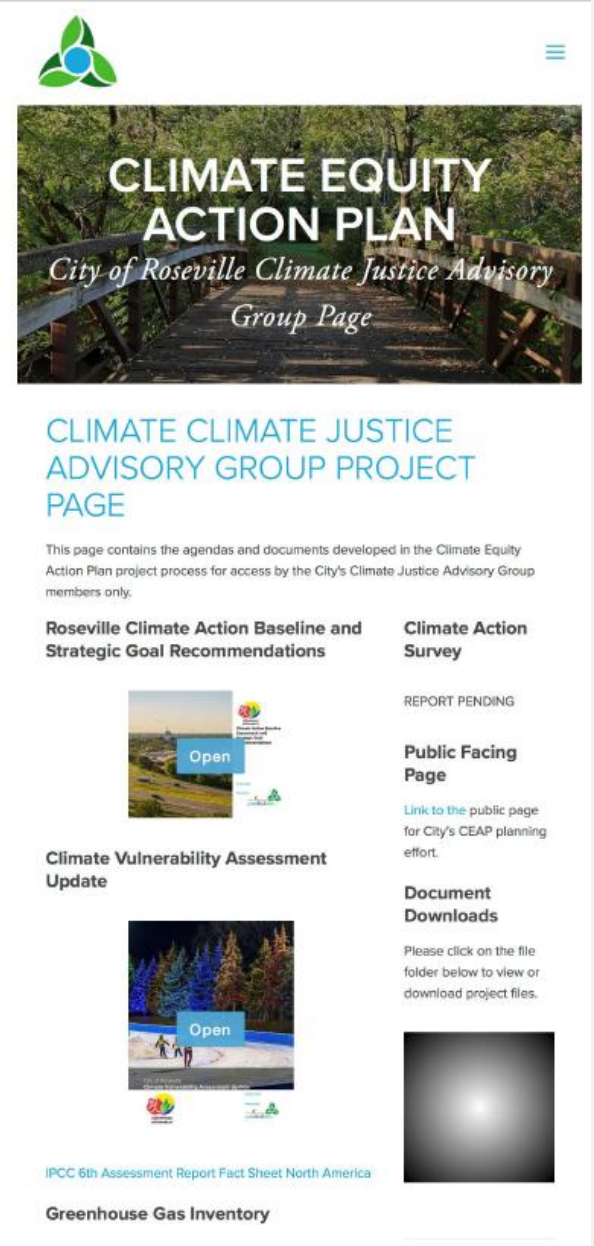
Nov 12 from 5pm to 8pm CST

Free
Nov 12 · 5:00 PM CST

Get tickets

Climate Justice Advisory Group

- **Team purpose: Collaborative Co-Creation of the CEAP**
- Support in reviewing, refining, and prioritizing strategic goals/strategies (preliminary recommendations in Climate Action Baseline Assessment)
- Support in exploring, creating, reviewing, refining, and prioritizing actions to achieve strategies –particularly through an equity lens
- Support in identifying what community members need to be empowered for near and long-term implementation
- Support in communicating the consensus of resulting plan



Climate Justice Advisory Group

Planning Process

Collaborative Planning

Team Meetings

Today

Saturday 12/6/25; Time: 11am-1pm

Saturday 1/24/26; Time: 11am-1pm

Saturday 3/21/26; Time: 11am-1pm

Climate Justice Advisory Group – Meeting 1

- Overview of the climate equity plan format and purpose
- Review of foundational documents
- Introduced Equity Screening Criteria

Climate Justice Advisory Group – Meeting 1

What does climate equity/climate justice mean to you?

"Not economically influenced"

"Everybody in it together."

"No one gets left out of information and programs"

"No one suffers more from GHGs or other pollutants than others"

"Transparency in planning and implementation"

"All populations can participate in all areas"

"Approach that considers all socio-economic classes – not just reserved for the 'Whole Foods shopper'"

"Information that is easy to understand"

Climate Justice Advisory Group – Meeting 1

What does climate equity/climate justice look like in Roseville?

"Transparent process. Data driven. Bold."

"Sustainable, educational, and simple."

"Pollution does not impact poorer/middle class areas more than 'richer' parts of the community."

"Bikeable and walkable neighborhoods"

"Lots of trees and native spaces"

"Roseville should educate and empower its citizens and hopefully also *inspire*, to act together in responding to climate change"

"Robust network of electric vehicle fast chargers, affordable and close to renters"

Staff Climate Advisory Group

- Includes a staff member from each department – approximately 10 members total
- Meetings will follow a similar format as the Climate Justice Advisory Group
  - Solicit feedback and ideas from both the staff and resident level on similar topics.
- Staff will also include representatives from the three watershed districts in Roseville

Collaboration with Ramsey County

Scope of work

City of Roseville & paleBLUEdot LLC

Community Engagement

- Survey
- Climate equity engagement workshops (2)
- Climate Justice Advisory Group
- Internal staff planning and engagement
- Climate storytelling
- Arts-centered youth engagement

Develop goals and metrics

Plan finalization

Ramsey County & Great Plains Institute

Review existing city plans and sustainability work

Develop draft climate action plans with Lauderdale and Shoreview

- Greenhouse Gas Inventory
- Vulnerability mapping
- Assistance with other planning tools

Provide technical assistance:

- Goal-setting
- Plan development
- Engagement techniques

Call to Action – we need your help!

Action Items for Commissioners

- Please share information about the City's Survey and Story Telling opportunities with your network!
- **Please share the upcoming community meeting on 11/12 with your network:** https://www.eventbrite.com/e/roseville-climate-equity-action-plan-community-event-tickets-1866523153999
- Take the survey and submit stories and artwork!

Q & A

Questions?

THANK YOU

Public Works Department