City of La Crosse Climate Action Plan

Community Meeting

Black River Beach Center
(3/23/22)

Agenda

Introduction

Climate Change in La Crosse

The Project

Climate Change Solutions

Planning Process

Ways to Get Involved

Q + A

La Crosse Strategic Goals
(please add your thoughts!)

Introduction

making change personal
paleBLUEdot LLC

Colleen

Educator
Community Engagement Consultant
Climate Planner

Ted

Architect
Urban Planner
Renewable Energy Consultant
Climate Planner

Our mission:

To hasten the transition to an authentically sustainable, no carbon economy and to elevate the public discourse.

Services:

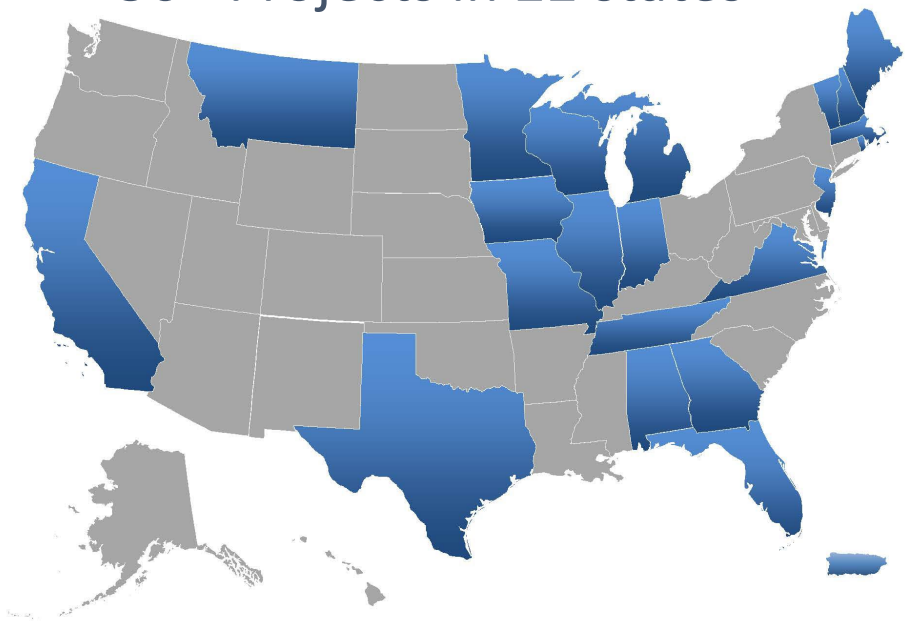
- climate planning
- sustainability + resilience consulting
- renewable energy + net zero planning

Introduction

Our mission:

To hasten the transition to an authentically sustainable, no carbon economy and to elevate the public discourse.

50+ Projects in 22 states



Climate and Energy Planning experience in last 5 years:

WI + MN
(25 communities)

- The City of Albert Lea
- City of Eau Claire
- City Of Burnsville
- The City of Duluth Minnesota
- City Of Faribault

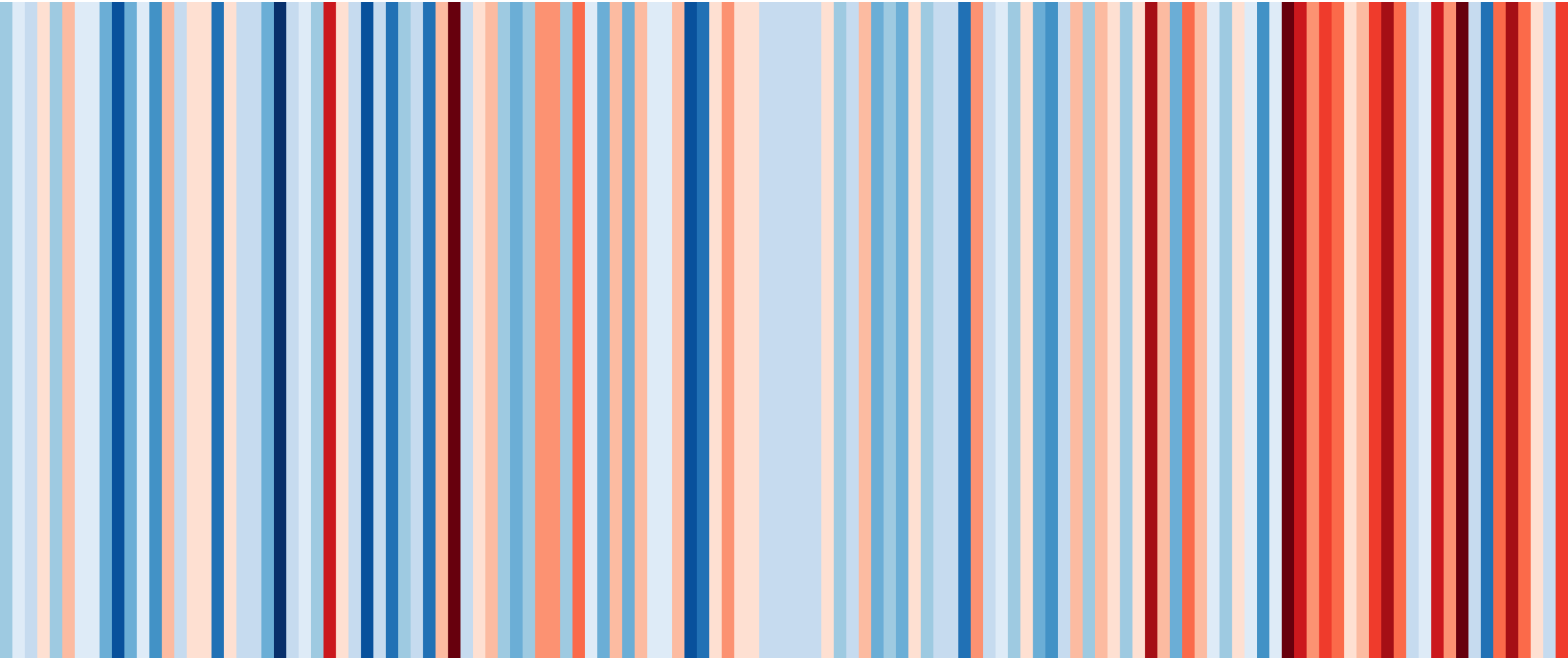
Nationally
(37 communities)

- City of Ames
- City of Bloomington
- The City of Dubuque — Masterpiece on the Mississippi
- Hartford Vermont
- Village of Northbrook

Climate Change in La Crosse

Average Daily Temperature Change: +- 4 Degrees since 1950

< 1895 2020 >



Climate Change in La Crosse

Severe Weather Since 2001

Storm Weather Events

Number of Events Reported In La Crosse County:

From April 2000 to March 2010: **207** events

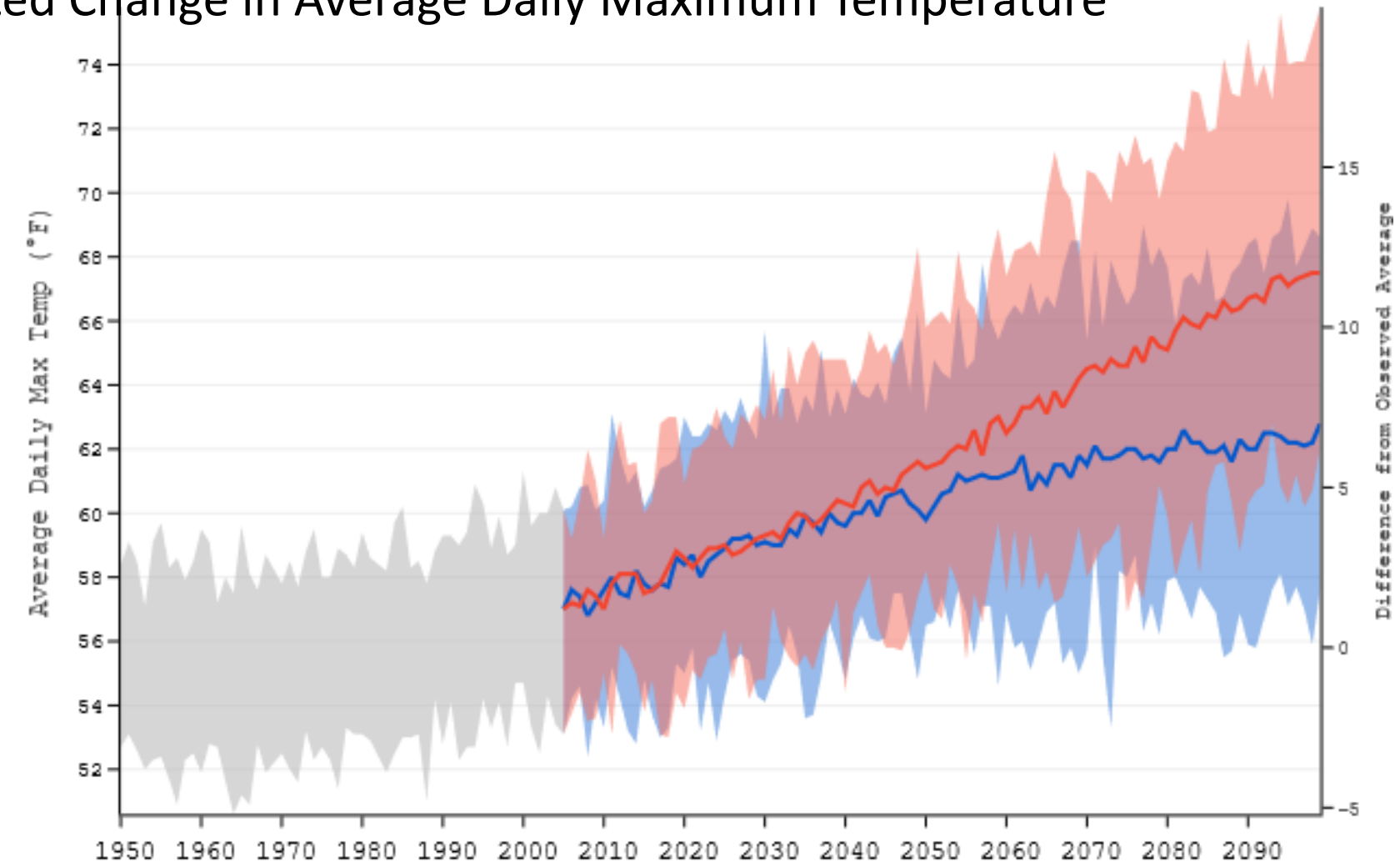
From April 2010 to March 2020: **274** events an increase of **33%**

Average Annual Storm Weather Damage 2001-2021: **5,869,000 + 0.2** deaths annually

(source: NOAA National Centers for Environmental Information)

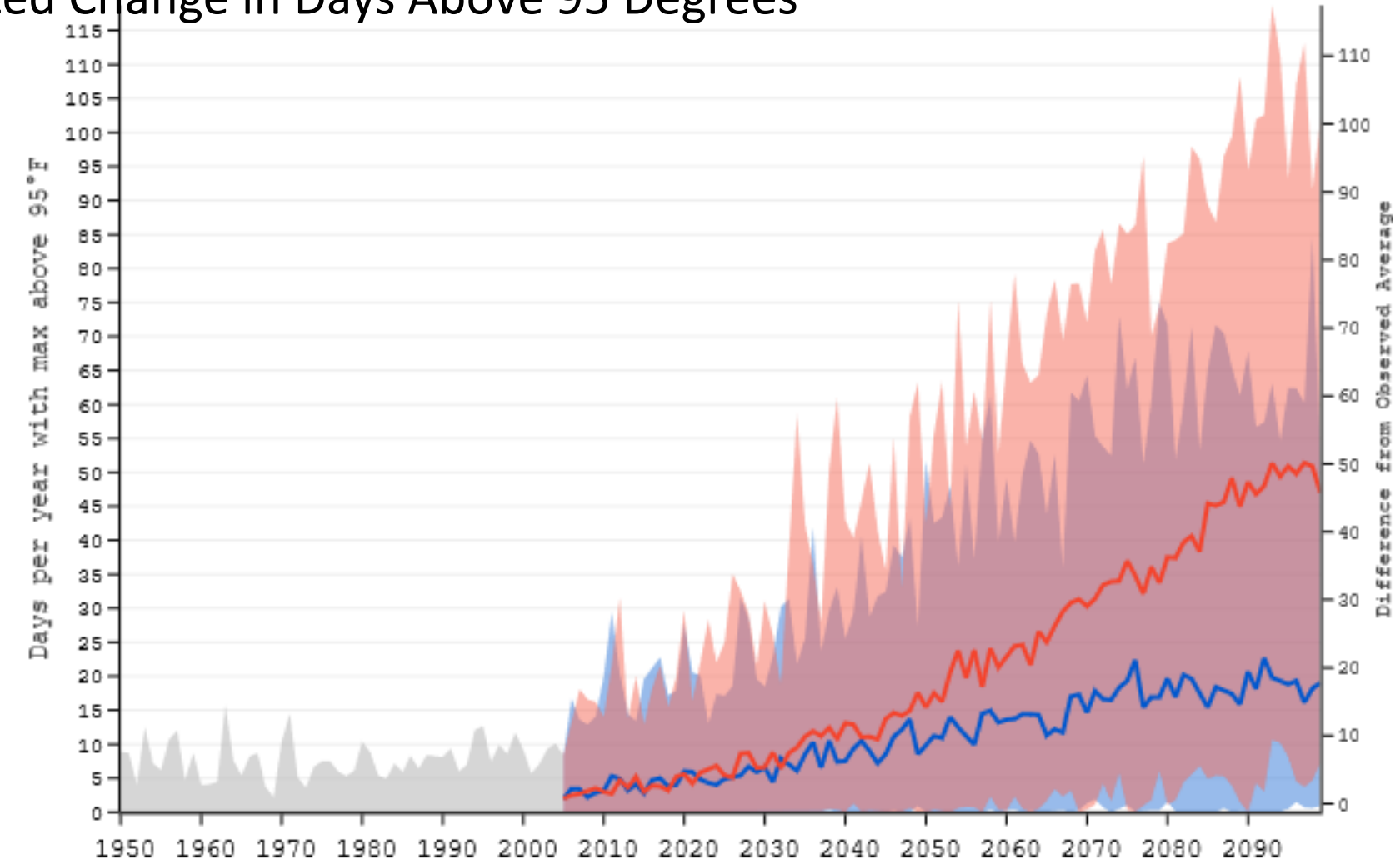
Climate Change in La Crosse

Projected Change in Average Daily Maximum Temperature



Climate Change in La Crosse

Projected Change in Days Above 95 Degrees

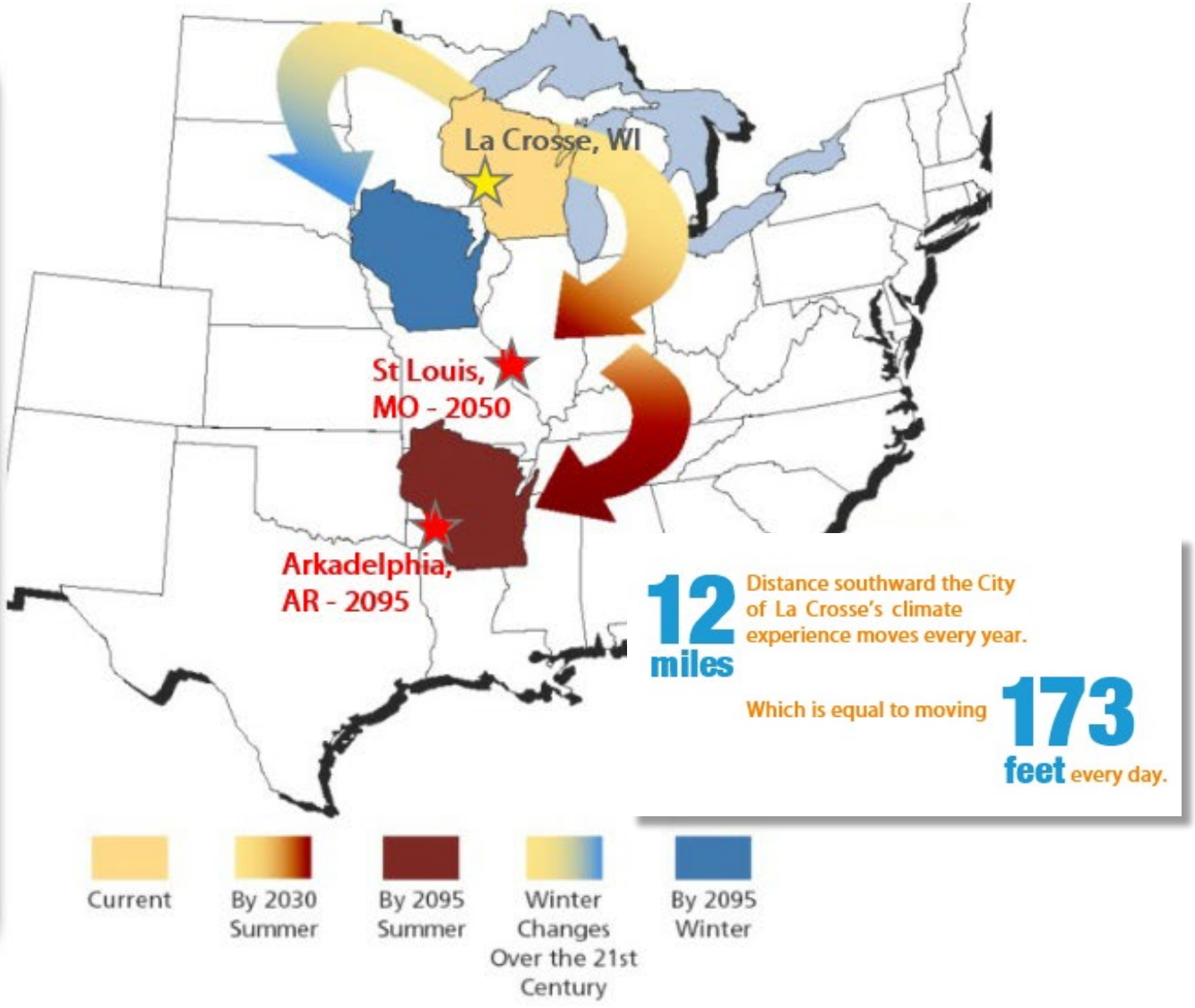


Climate Change in La Crosse

Looking Forward

By 2100, La Crosse can expect:

Increase in annual average temperature:	8-12°
Increase in annual precipitation:	-9% to+15% Increased Seasonal Variability
Increase in heavy precipitation	30%
Increase in Days above 95:	+50 days
Decrease in Days below 32:	-45 days
Increase in growing, allergy, and insect season:	+44 days
Increase in Air Conditioning Demand:	275%

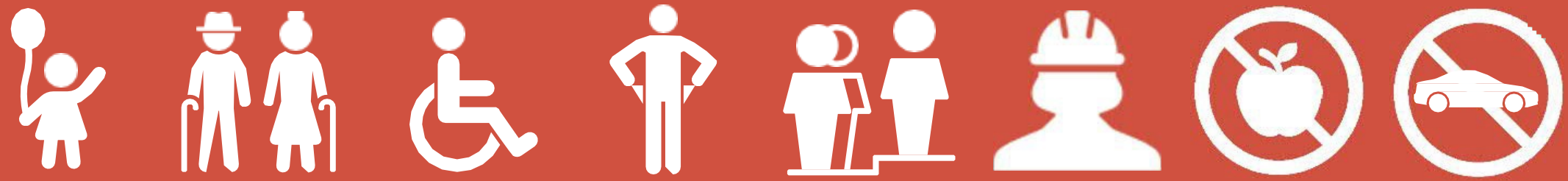


Climate Change in La Crosse

Primary Climate Risks

Climate Related Economic Risks

Community Groups Most Vulnerable



Climate Change in La Crosse

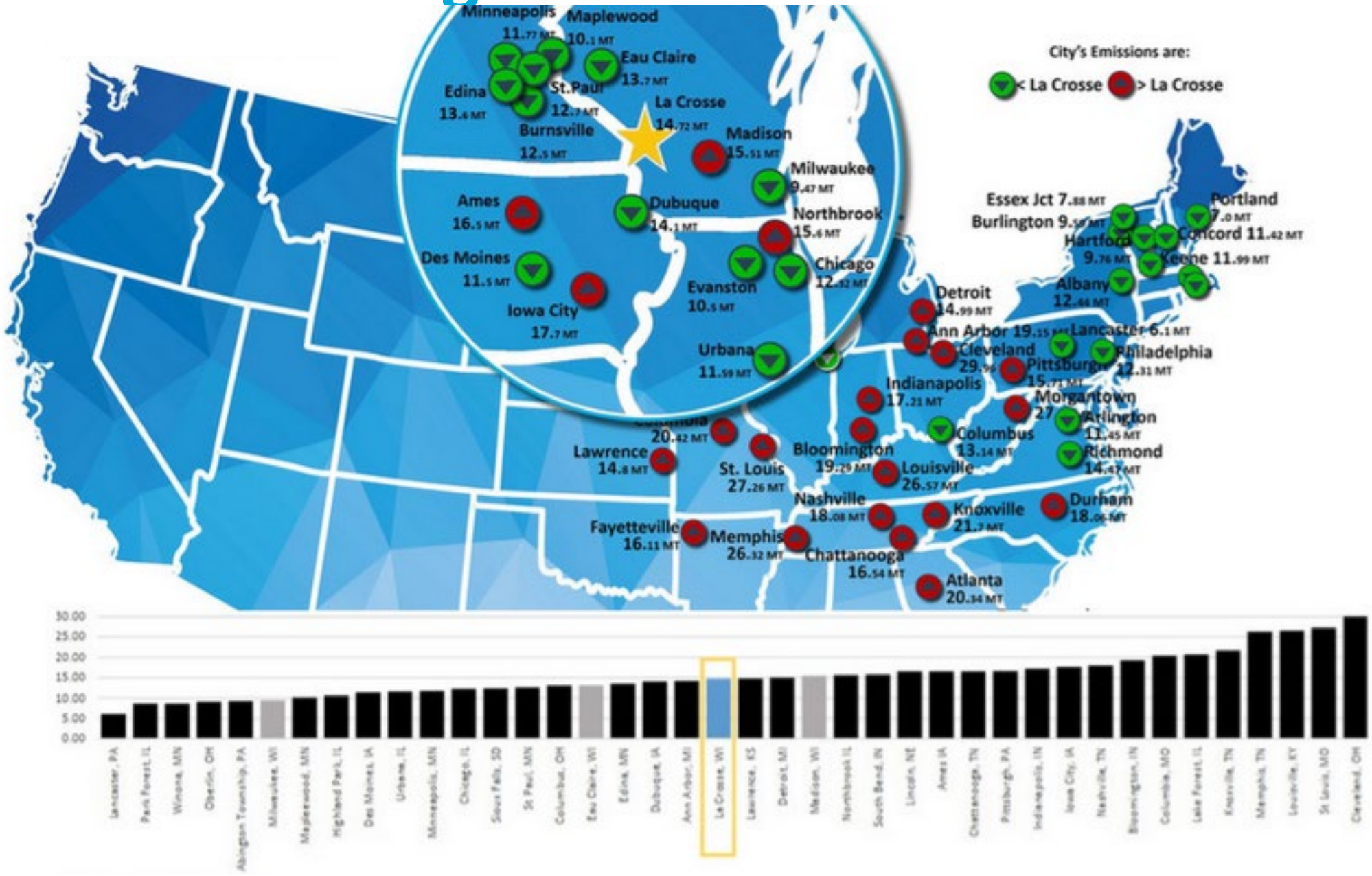
2019 By The Numbers	2020 By The Numbers	2 Year History Dashboard
GHG Emissions 775,227	GHG Emissions 667,101	GHG Emissions -108,126 -13.95%
15.00 MT Per-Capita	12.7 MT Per-Capita	-2.34 MT Per-Capita
15.72 MT / Job	13.53 MT / Job	-2.19 MT / Job
0.2235 MT / $1,000 GDP	0.1963 MT / $1,000 GDP	-0.03 MT / $1,000 GDP
Population 51,666	Population 52,680	Population +1,014 +1.96%
GDP $3,469,222,001	GDP $3,399,092,125	GDP -$70,129,876 -2.02%
$67,147 GDP Per-Capita	$64,523 GDP Per-Capita	-$2,624 GDP Per-Capita
Employment 49,316	Employment 49,316	Employment 0 0%

How Large Are Community wide GHG Emissions?

The community's total emissions for 2019 are equal to **13.1 Billion** cubic feet of man-made green-house gas. This volume of atmosphere is equal to a cube **2,357** feet on each face viewed here from over 2 1/2 miles away.

2020 Citywide Emissions by Sector

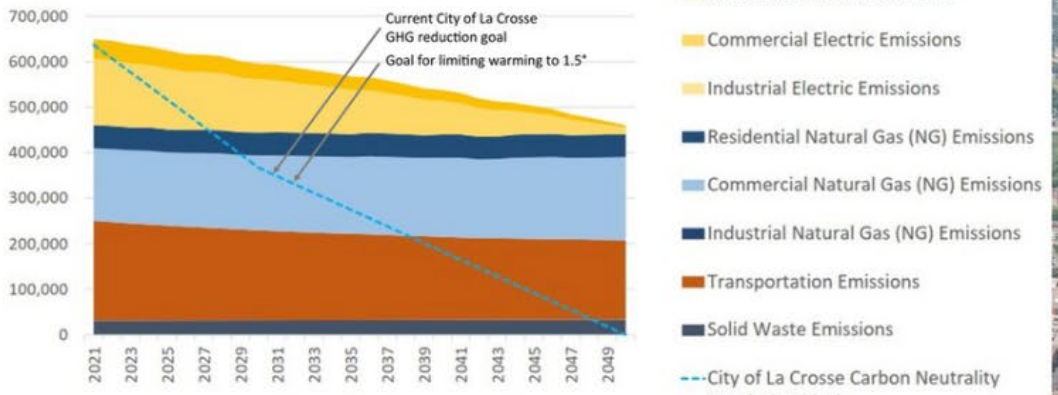
Climate Change in La Crosse



Climate Change in La Crosse

GHG Emissions Forecast

Business-As-Usual Forecast



- Residential Electric Emissions
- Commercial Electric Emissions
- Industrial Electric Emissions
- Residential Natural Gas (NG) Emissions
- Commercial Natural Gas (NG) Emissions
- Industrial Natural Gas (NG) Emissions
- Transportation Emissions
- Solid Waste Emissions
- City of La Crosse Carbon Neutrality Resolution Goal

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GHG Emissions Forecast

Business-As-Usual Forecast Summary

Change from 2020 2030 GHG Emissions	-12.8%	Change from 2020 2040 GHG Emissions	-21.6%	Change from 2020 2050 GHG Emissions	-32.7%
Total Annual GHG	610,588	Total Annual GHG	548,752	Total Annual GHG	471,381
Goal Annual GHG	651,963	Goal Annual GHG	452,549	Goal Annual GHG	208,332
Difference	-41,375	Difference	96,203	Difference	263,049
Electricity Use Emissions:	-60.1%	Electricity Use Emissions:	-76.6%	Electricity Use Emissions:	-100.0%
Residential	35,198	Residential	23,847	Residential	5,150
Commercial	116,398	Commercial	73,863	Commercial	14,343
Natural Gas Emissions:	45.9%	Natural Gas Emissions:	54.1%	Natural Gas Emissions:	76.1%
Residential	50,125	Residential	50,861	Residential	50,458
Commercial	164,483	Commercial	174,181	Commercial	182,579
Transportation Emissions:	-0%	Transportation Emissions:	-17.1%	Transportation Emissions:	-20.8%
VMT (Thousands)	544,960	VMT (Thousands)	615,206	VMT (Thousands)	668,815
Solid Waste Emissions:	46.4%	Solid Waste Emissions:	59.0%	Solid Waste Emissions:	71.4%
LFG Emissions	31,937	LFG Emissions	32,765	LFG Emissions	33,644
Wastewater+Water :	24.3%	Wastewater+Water :	35.0%	Wastewater+Water :	43.7%
Wastewater Emissions	2,024	Wastewater Emissions	2,123	Wastewater Emissions	2,180
Water Emissions	1,215	Water Emissions	1,274	Water Emissions	1,309

Project Overview

The Project
Develop a new Climate Action Plan (CAP) for La Crosse – Intended to guide action City Wide as well as for Municipal Operations.

What Is A Climate Action Plan:
Climate action plans are comprehensive roadmaps that outline the specific Strategies and Actions that a city (or organization) will implement to reduce greenhouse gas emissions related climatic impacts.

The La Crosse CAP is anticipated to address Mitigation and Adaptation:

Mitigation – reducing climate change – involves reducing the flow of heat-trapping greenhouse gases into the atmosphere (supporting goals of joint declaration).

Adaptation – developing ways to protect people and places by reducing their vulnerability to climate impacts (supporting guiding principals).

Project Overview

What Is A Climate Action Plan:

They address broad climate action sectors:

Mitigation
(and some adaptation)

Adaptation
(and some mitigation)

Project Overview

What Is A Climate Action Plan:

Strategies: are specific statements of direction that expand on the climate action vision GHG reduction goals and guide decisions about future public policy, community investment, and actions.

Actions: are detailed items that should be completed in order to carry out the vision and strategies identified in the plan.

They are organized with an over-arching goal with Strategic Goals/Strategies and Detailed Actions to achieve the goal.

"Reduce Community wide energy consumption by 10% for electricity and 10% for Natural Gas by 2030."

"Establish a Large Business Energy Efficiency program to promote building improvements and practices that reduce energy use. Target 10 large businesses commissioned annually."

Project Overview

What Is A Climate Action Plan:

What types of actions can be included in a CAP?

Leading by **Example:**

Actions the City can apply to city operations or facilities which illustrate actions that can be taken by residents and businesses in the community.

- Participate in the Guaranteed Energy Savings Program
- Install solar on rooftops of public buildings
- Adopt net-zero energy standards for public facilities
- Convert city fleets to EVs

Incentivizing:

Actions the City can take to incentivize action in the private sector - these can include direct economic incentives as well as actions which remove barriers.

- Offer regulatory incentives within zoning
- Expedite permitting for clean energy projects
- Offer Net Zero technical assistance for private sector Developments
- Establish a Renewable Energy grant program for income qualified residents.

Advocating:

Encourage change in support of meeting CAP goals - these can include advocacy and lobbying at State and Federal level as well as educating residents and businesses on actions they can take.

- Lobby for PACE financing legislation
- Promote utility rebate programs in city communications
- Provide Net Zero and Solar Ready Guides to Residents and Businesses

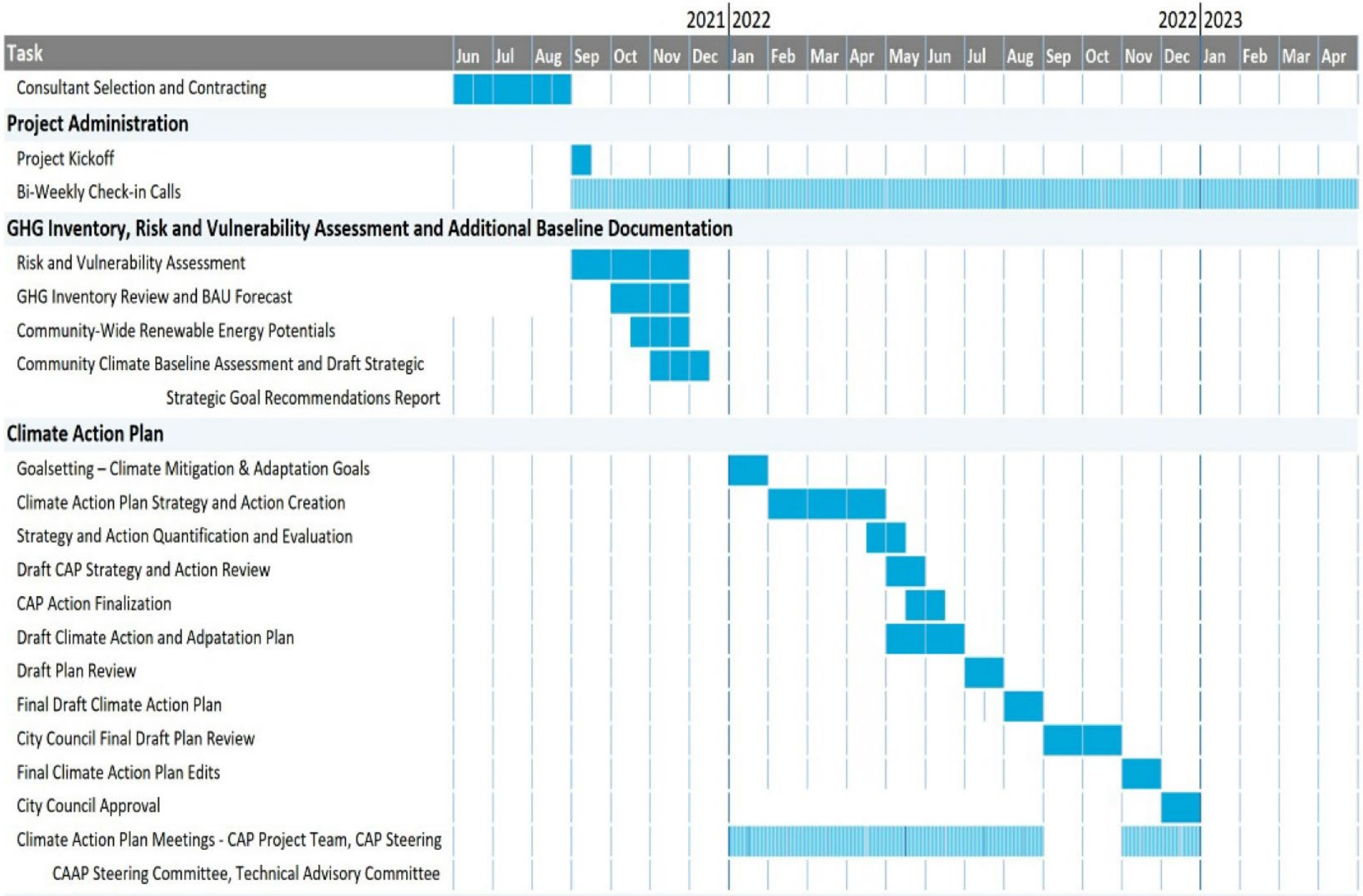
Require:

Actions the City can take to require actions within the private sector.

- Require energy efficiency and renewable energy within PUD ordinance
- Adopt an energy benchmarking ordinance
- Require submission of a solar pv feasibility assessment with all new building permit applications.
- Adopt an energy stretch code

Project Overview

Schedule:



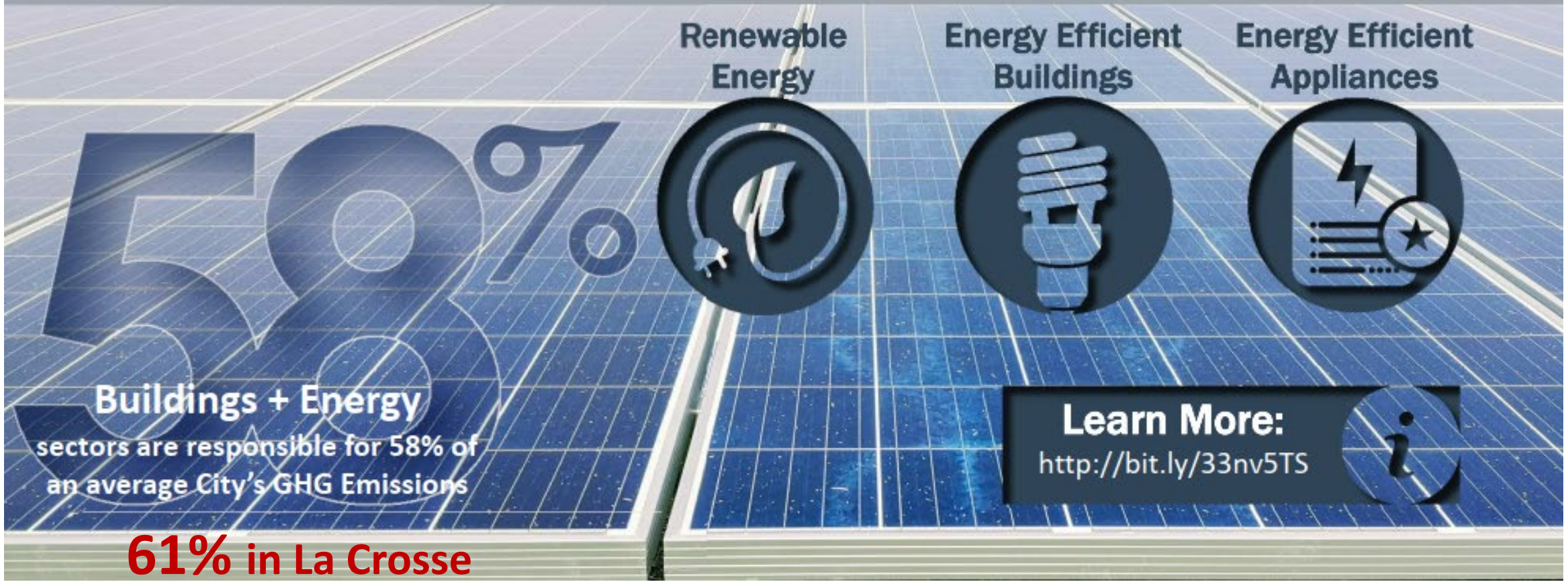
Project Overview

Potential Co-Benefits of Creating a CAP:


Climate Change
Solutions

Buildings + Energy

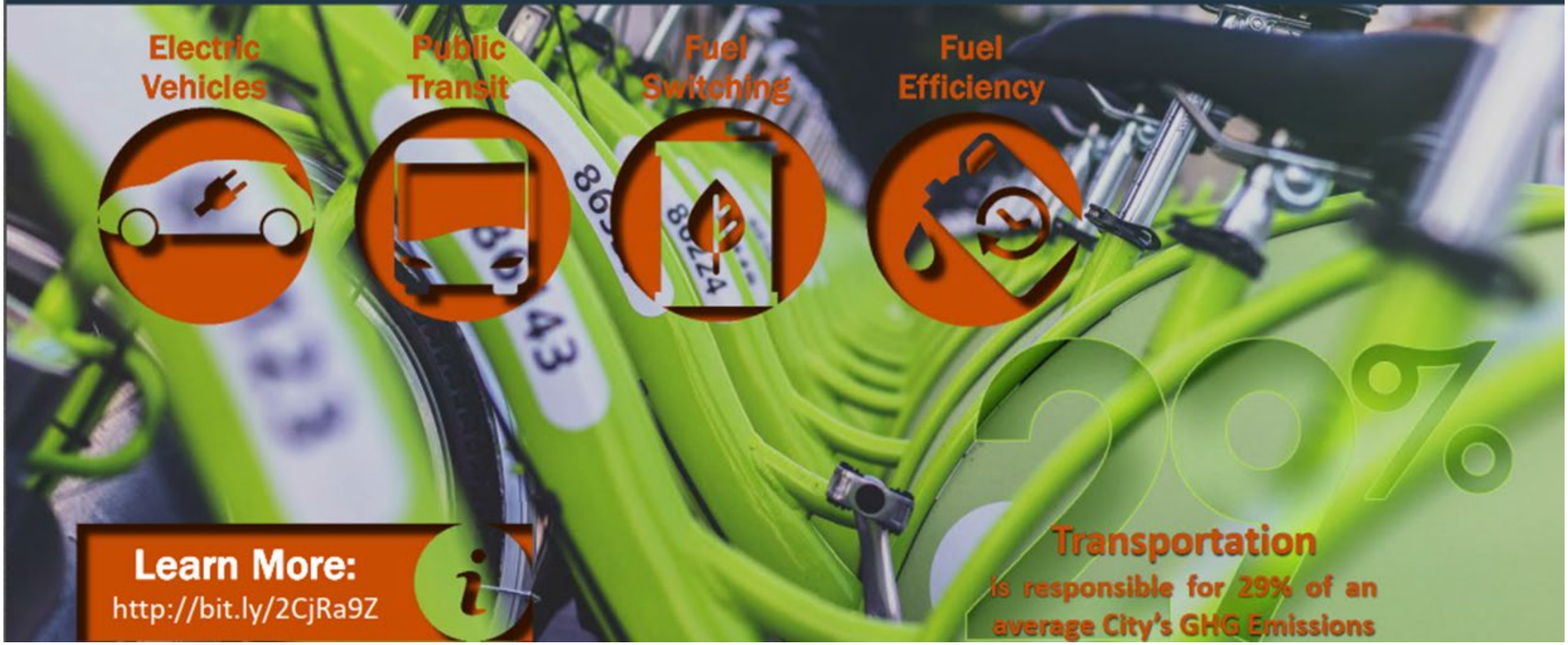
The Building Energy sector includes all residential, commercial, and industrial buildings. Greenhouse gas emissions from this sector come from **direct emissions** – from fossil fuels burned on site for heating or cooking needs – as well as **indirect emissions** – from fossil fuels burned offsite in order to supply that building with electricity. Cities and individuals can significantly reduce Building and Energy GHG emissions by increasing:



61% in La Crosse

Transportation

The Transportation sector includes the movement of people and goods by cars, trucks, trains, ships, airplanes, and other vehicles. Cities and individuals can significantly reduce transportation GHG emissions by increasing:



33.5% in La Crosse

Solid Waste

Landfills are some of the greatest producers of methane gas, a greenhouse gas that's an estimated 35 times more potent than carbon dioxide. By diverting waste from landfills cities can reduce global emissions and the subsequent warming of the planet. Strategies for cities and individuals to reduce Solid Waste GHG emissions include:

3.2% in La Crosse

Water + Wastewater

According to a report by The River Network, Water related energy use totals 13% of US electricity consumption and has a carbon footprint of at least 290 million metric tons.
Meanwhile, wastewater treatment is responsible for 3% of global GHG emissions.
Strategies for **cities and individuals to reduce water related GHG emissions include:**

Energy Efficiency Jobs

Clean Energy Jobs

Transit Jobs

Job Training + Skills

Consumer Savings

The link between climate change, economical scarcity and poverty is straightforward. Low income individuals and those living in poverty in our communities are especially prone to the impacts of climate change. Climate Change Solutions for Cities can reduce our contributions to global greenhouse gas levels, deal with the risks posed by climate change, and achieve economic growth and opportunity.

Transformative change is needed now in how we build our cities, produce and use energy, transport people and goods, and manage our landscapes. And the challenge is urgent. Luckily, all of the climate change solutions available to our cities represent opportunities to improve our quality of life, improve health outcomes, and provide opportunities for new jobs and economic development. Cities can support the advancement of a Climate Economy in a number of ways - *learn more*:

Learn More:
http://bit.ly/2NKKB5y

Climate Economy

Planning Process

Baseline Research and Documentation

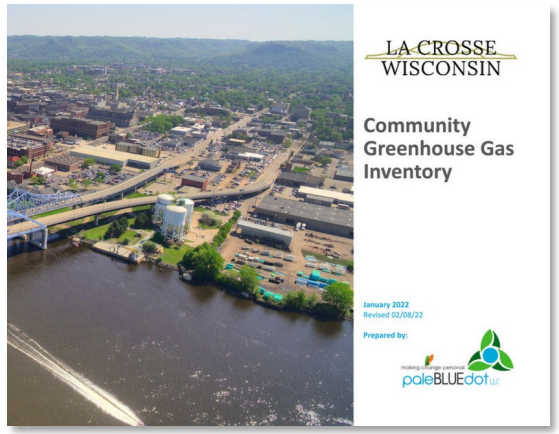
Collaborative Planning Team

Community Engagement and Input

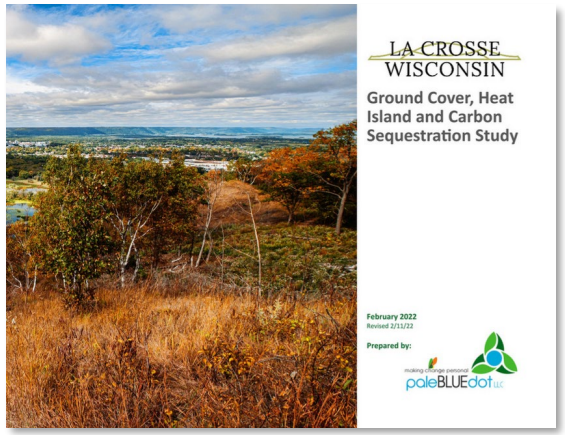
Planning Process

Baseline Research and Documentation

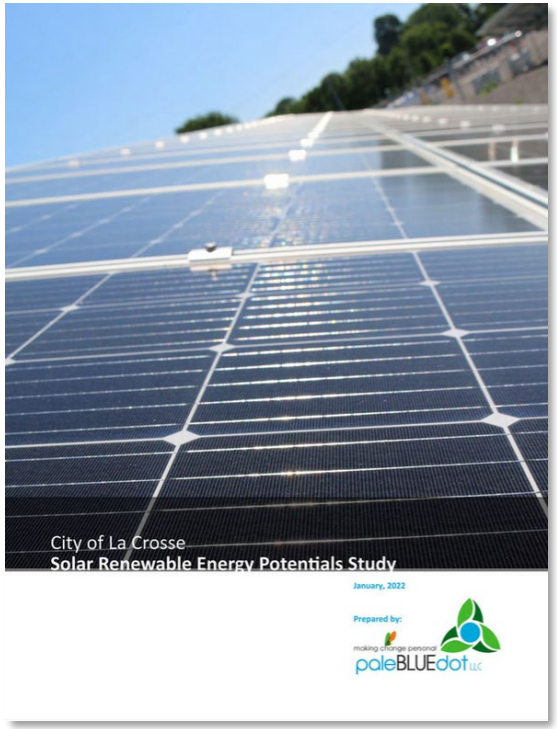
GHG Inventory



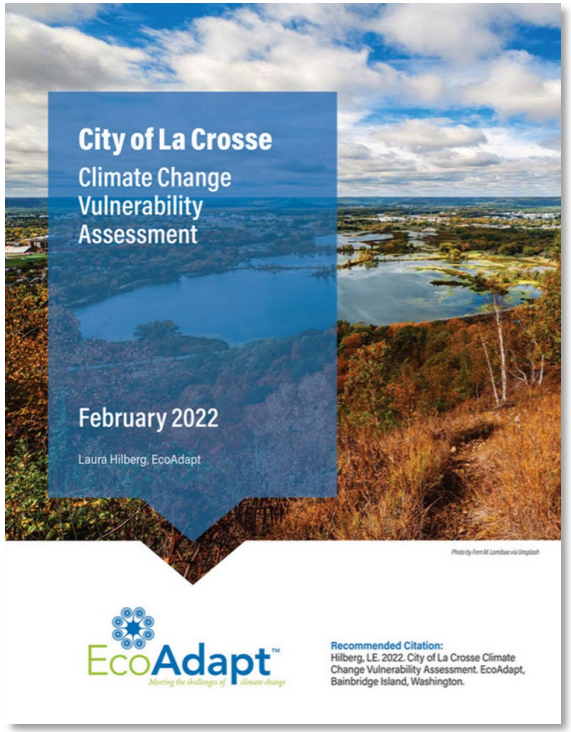
Tree Survey



Renewable Energy Potential



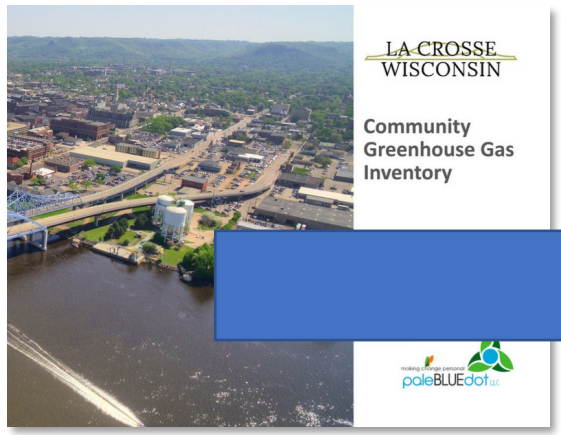
Vulnerability Assessment



Planning Process

Baseline Research and Documentation

GHG Inventory



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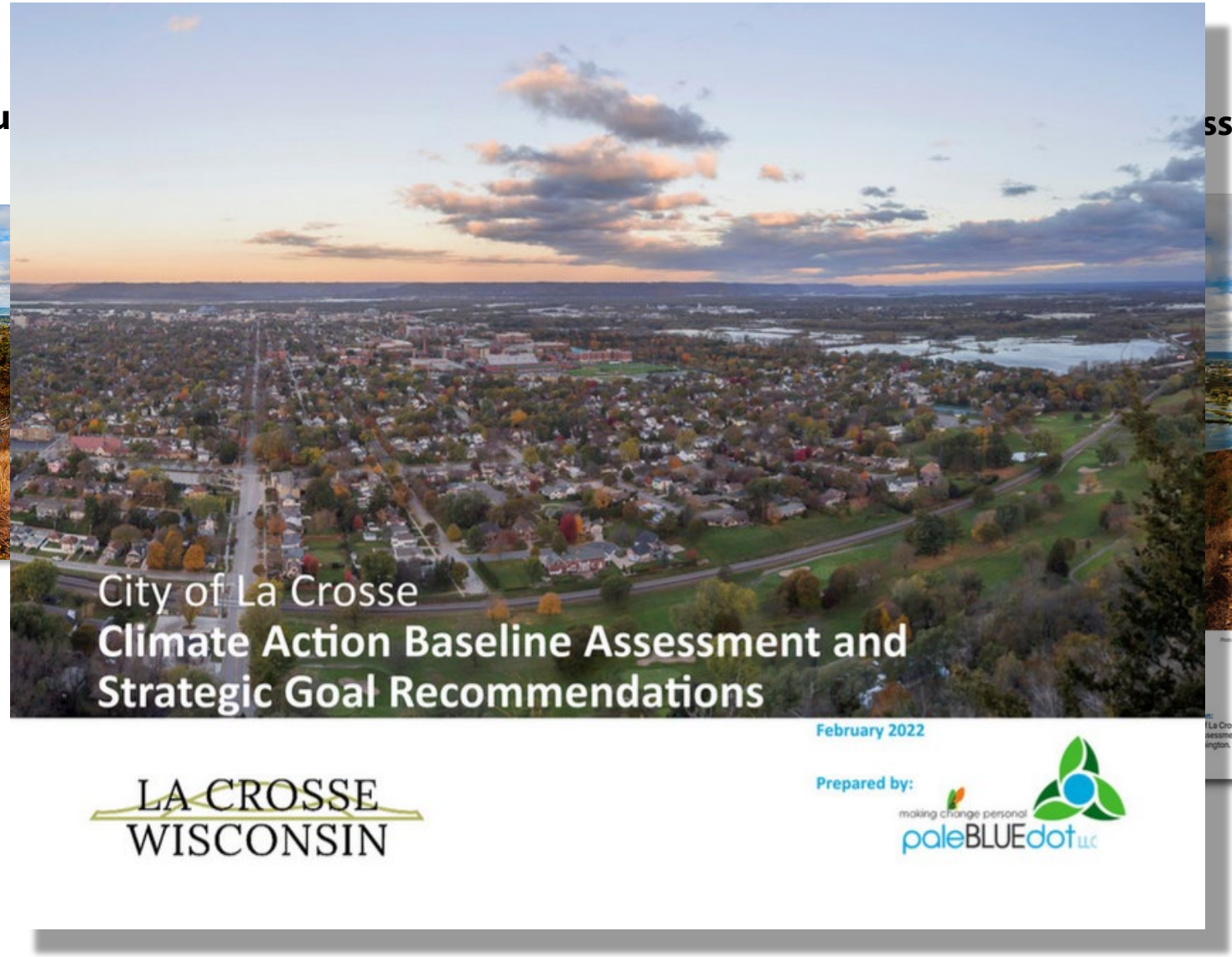

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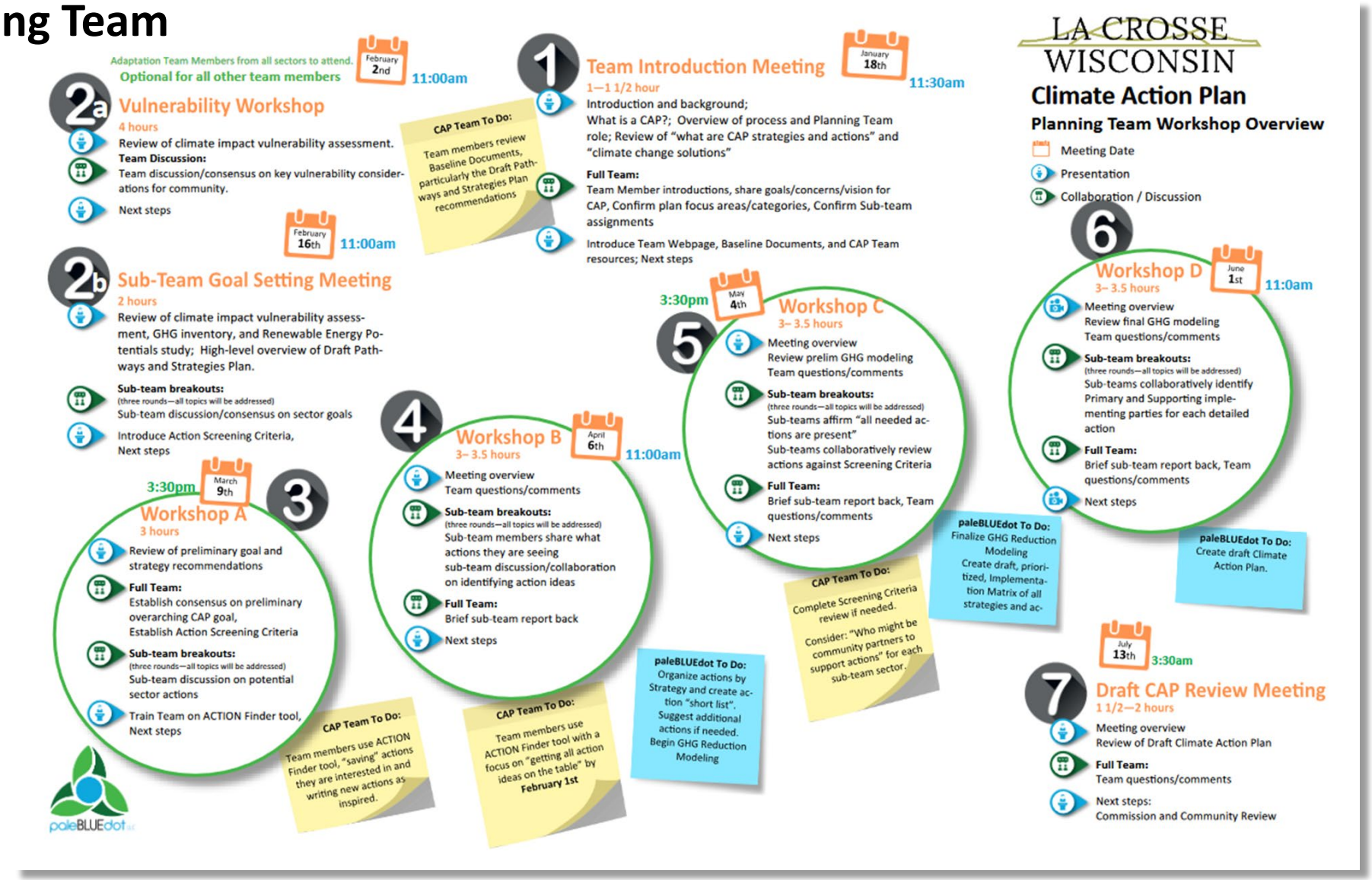
Planning Process

Collaborative Planning Team

Collaborative Multi-Stakeholder Team Co-Authoring Plan

Organized into sub-teams by CAP topic



Planning Process

Community Engagement and Input

Phase 1 Pre-Planning
Fall 2021 – April

Phase 2 Draft Plan Review
Late Summer + Fall

Community Engagement Meetings

- Community-wide meetings
- Pop-Up events

Online Surveys

Equity Listening Sessions

- Community Partner Listening Sessions
- Small/Focus Groups and one-on-one interviews with impacted communities

Community Perspectives through Art

- Interactive projects to engage + capture community opinions

Public Information Campaign

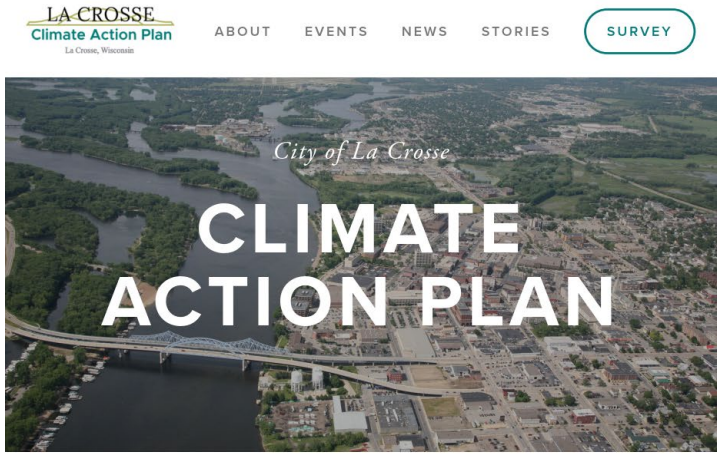
- Website
- Social Media
- Flyers + Brochures

Planning Process

Community Engagement and Input

Public Webpage:

https://www.lacrosseclimateactionplan.org/



La Crosse has committed to reduce greenhouse gas emissions and prepare for the impacts of climate change.

The City has committed to the Global Covenant of Mayors connects it with the broadest global alliance committed to city climate leadership, building on the pledges of over 10,000 cities and local governments from six continents representing more than 800 million citizens worldwide. With our city's commitment to ambitious climate action, La Crosse is part of a historic and powerful response by the world's cities to address the climate crisis.

ABOUT

The City of La Crosse is developing its first Climate Action Plan for the community. The plan will help those who live and work in La Crosse imagine and achieve a future where the earth and all who live on it thrive.

Planning Process

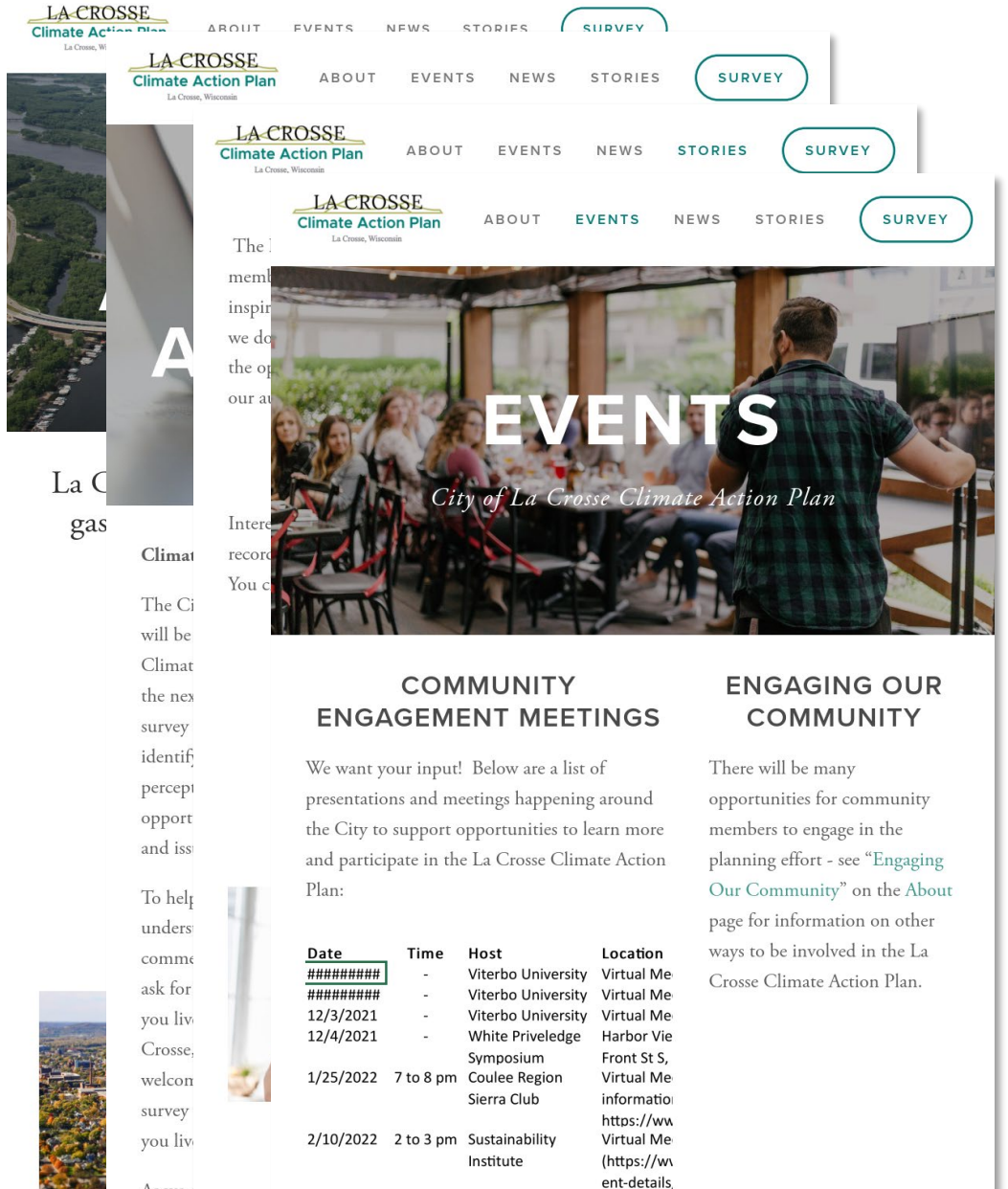
Community Engagement and Input

Public Webpage:
https://www.lacrosseclimateactionplan.org/

On-Going Engagement Opportunities
- Climate Action Survey
- Climate Stories Project
- Events List

Meeting-in-a-box: Host Your Own Discussion!

Able+Interested in "getting the word out"?
- Social Media kit here (and on Team page!): https://cutt.ly/ZIEvbEB



What Are Your Thoughts?

What would you like to see the City do to address climate change?

Please review the draft La Crosse Strategic Goals – and add your thoughts!
(on the walls)

Please take the survey and submit your Climate Story!

https://www.lacrosseclimateactionplan.org/