Update on Climate Action Planning

Draft Framework and Collaboration

April 17, 2019

Presentation Overview

1. Town Action Today
2. Draft Climate Action Framework
3. Next Steps & Council Feedback

Sustainability

Environment & Climate

Equity, Diversity & Inclusion

Economic Vitality

Sustainability

Environment & Climate

Equity, Diversity & Inclusion

Economic Vitality

Climate Commitments


60% carbon reduction by 2050
26-28% carbon reduction by 2025


6.7% carbon reduction

Buildings

Green building ordinance

LED lighting upgrades

Guaranteed energy savings contract

$164k in utility savings within 2 years

Energy management plans

Northside Energy Saver Initiative

Transportation

Green municipal fleet

6.5 million rides annually

Hybrid buses + 2 all-electric soon

Town-wide Mobility Plan

Greenways Master Plan

Resilience

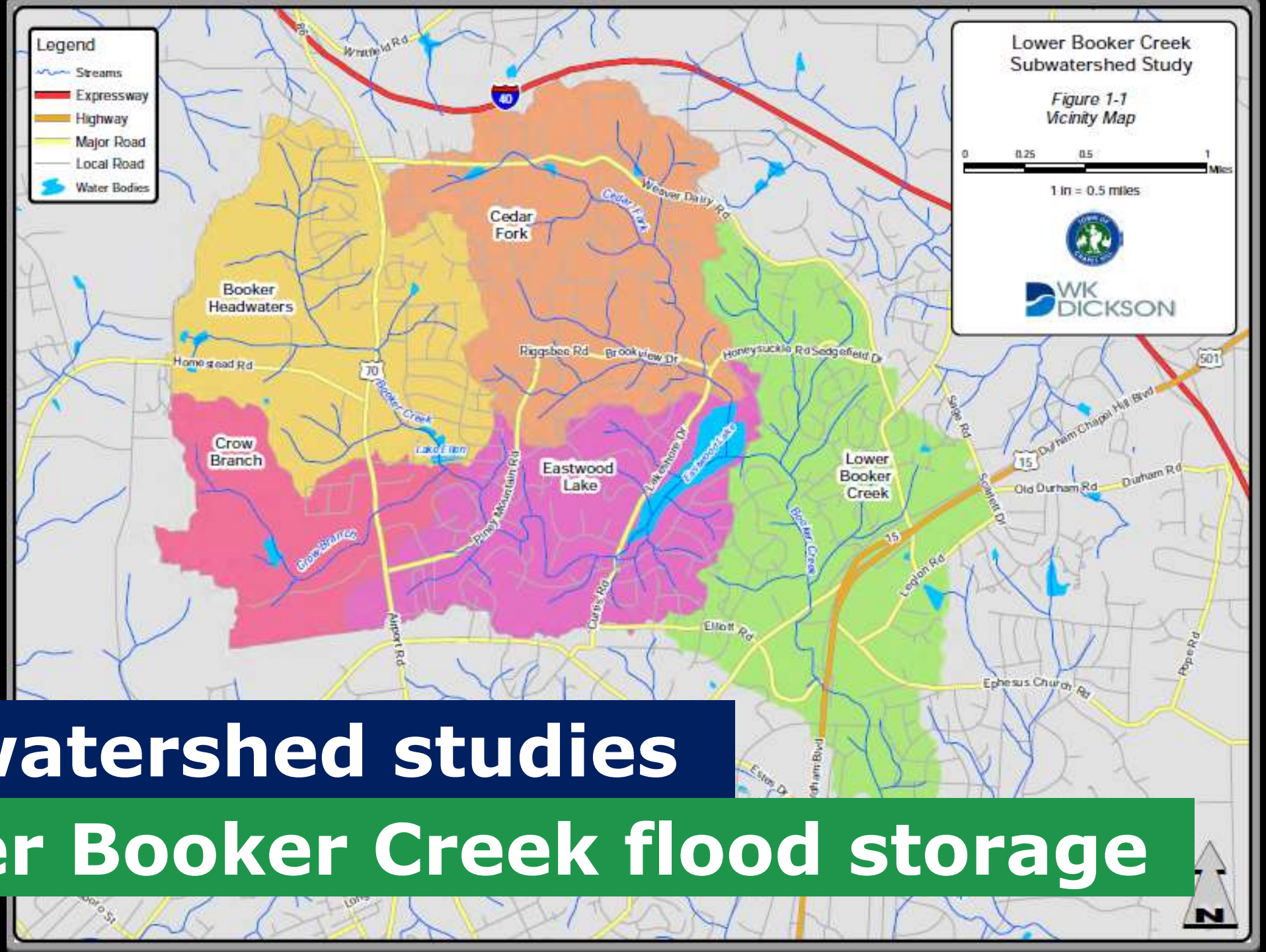
Regional Resilience Assessment

Trees & Natural Areas

Natural Areas & Open Space

Tree Replenishment Committee

Water



Subwatershed studies

Lower Booker Creek flood storage


Mayors
#Save Water
Challenge
Mayors Save Water Challenge

Draft Climate Action Framework

Renewable Energy

Tree & Natural Area Protection

Water Conservation & Protection

Transportation Infrastructure

Building Efficiency

Waste Reduction

Next Steps

2 Parallel Paths Through June 2020:

- Continue taking local action under Framework

- Create and adopt an official Climate Action Plan
  - Research best practices
  - Collaborate with UNC, Schools, County
  - Develop draft Plan with community input
  - Adopt official plan by June 2020

By **2025**, Minneapolis will

Reduce energy use by **17%**.

Generate **10% of our electricity** from local, renewable sources.

Construct **30 miles** of on-street, protected bicycle facilities and raise the bicycle commute mode share to **15%**.

Help **double** regional transit ridership and support safe, **walkable** neighborhoods.

Hold total waste generation **flat** and recycle **half** of all waste citywide.

Reach a composting rate of **15%** of the entire waste stream.

Continue to **grow sustainably and equitably** with more residents, jobs, and opportunity across **all of Minneapolis**.

Action	CO2 Impact per Household (lbs)	Annual Savings per Household
Buy green power from your utility	2,052	$0
Reduce your heating temperature by two degrees	568	$52
Increase your cooling temperature by two degrees	401	$19
Replace five incandescent bulbs with compact fluorescent (CFL) or LED bulbs that use 75% less energy	535	$26
Use fans instead of A/C on cool summer nights	540	$26
Leave your car at home and take the bus once a week for work, school or errands	881	$154
Wash your clothes in cold water to save money and preserve clothing	385	$35
Dry your clothes outside on a line	1,845	$91
Turn your water heater down to 120F	111	$10
Install a high efficiency showerhead	381	$35
Drive the speed limit and maintain tire pressure for easy gas savings	1,102	$209
Try composting to turn food waste into dirt	80	$0

Sign up for a low-cost home energy visit to find out more ways to save: visit www.mncee.org/hes-mpls

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WHERE WE ARE

2015

1,848,741 MT

OUR GOAL IS AN

80%

REDUCTION

BELOW 2005 LEVELS

WHERE WE WANT TO BE

2050

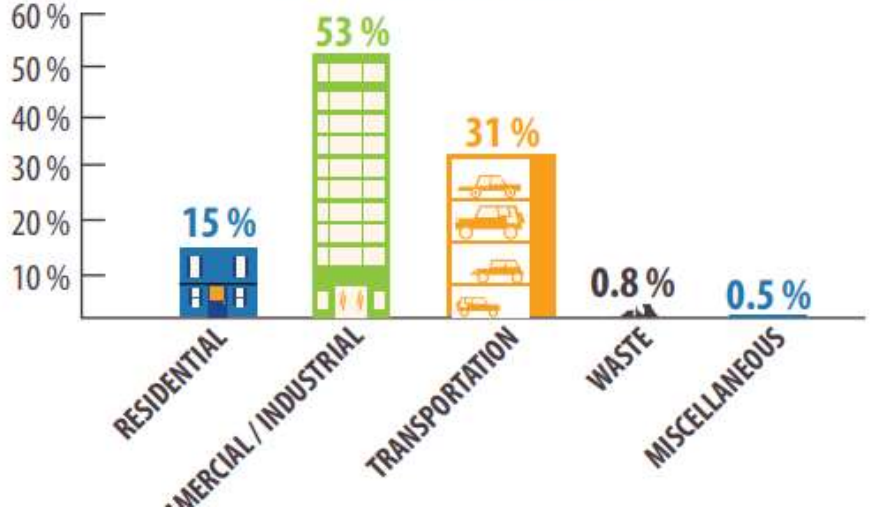
390,000 MT

EMISSIONS BY SOURCE

ELECTRICITY GENERATION	52%
GASOLINE, DIESEL AND JET FUELS	30%
NATURAL GAS	14%
LANDFILL	4%
MISCELLANEOUS	0.1%

96% of Boulder's emissions come from burning fossil fuels.

EMISSIONS BY SECTOR



Climate Change on the Front Range

In a recent analysis of past and future climate conditions along the northern Front Range, University of Colorado Boulder's Western Water Assessment team constructed a temperature history and projections. This analysis shows a clear warming trend since 1950, with temperatures already nearly 2 degrees F above average. This is, in part, responsible for fire seasons that are now nearly five weeks longer than the 1970s and average flowering dates for plants that are one to two weeks earlier than 20 to 30 years ago. By 2050, temperatures are projected to rise by a minimum of 2 degrees with a possible increase as high as 6 degrees. At 2 degrees, Boulder's climate would resemble Pueblo, Colorado. At 6 degrees, the closest comparison would be Albuquerque, New Mexico.

Already nearly 2 degrees F above average.

Fire seasons nearly five weeks longer.

Flowering dates are one to two weeks earlier.

Projected to be 2 to 6 degrees warmer by 2050.

What does this look like for Boulder?

+2°
Fahrenheit

+6°
Fahrenheit

[1] http://www.noaa.gov/news/july-was-hottest-month-on-record-for-globe

[2] http://planthardiness.ars.usda.gov

Targets & Time frame

	METRIC	2015	2020	2035[1]	2050[2]
Vehicle Miles Traveled (VMT)	Millions of Miles	2.65	2.32	1.95	1.59
Walk/Bike/Transit Rideshare	% of trips	64%	69%	80%	92%
Vehicle Energy Efficiency	MPGe	22	40	61	88
% Complete Neighborhoods	% of Census Blocks	26%	N/A	80%	N/A
Electric and alternative Fuel Vehicles	% Light-Duty Fleet	1%	15%	45%	75%

Transportation Share of Total Emissions

Buildings

The proportion of total emissions from buildings and their related energy sources are discussed in the section on "High Performance Buildings."

Zero Waste Partners

Eco-Cycle operates the Center for Hard-to-Recycle materials (CHaRM), keeping tons of large appliances and other difficult to recycle materials out of the landfill. It also organizes the community and volunteers in support of zero waste initiatives, including a network of block leaders throughout the community.

Western Disposal partners with the city to provide yard and wood waste drop-off centers. It is also an active collaborator with the city on pilot projects and innovation solutions, such as the launch of bear resistant trash cans and compost carts.

Boulder County owns and manages regional facilities, including Boulder County Recycling Center, the primary sorting and distribution for the community's recycling materials. It also operates the Hazardous Materials Management Facility, which diverts thousands of pounds and gallons of otherwise toxic materials out of our landfills. The county also jointly supports (with the City of Boulder) the Partners for a Clean Environment (PACE) service, providing zero waste services to Boulder businesses.

The **Center for ReSource Conservation** operates ReSource, which sells reclaimed building materials and runs a community tool lending library. In 2014, ReSource reclaimed more than 3.3 million pounds of building materials.

University of Colorado is an important waste management partner with city by providing outreach to the student community through its student staffed "green teams." These teams provide face-to-face information and education to thousands of students each year, discussing both energy efficiency and waste reduction.