



CITY OF SEDONA

Climate

Action Plan

2021



Why do we need a **Climate Action Plan?**



Climate change poses risks to everything from our health and our infrastructure to local ecosystems



The **benefits** of a plan for Sedona are **broad**



Enhancing local habitat and recreational opportunities




Supporting low-income and disadvantaged communities



Improving quality of life, well-being, and the local economy



Promoting healthier lifestyles and public health

A scenic view of a river flowing through a rocky canyon. The river is surrounded by reddish-brown rock formations and lush green vegetation on the hillsides. In the background, there are mountains under a cloudy sky. A group of people is visible on the right bank of the river. The left side of the image is partially covered by a green, semi-transparent overlay.

A Sedona
Climate Action
Plan will establish
a **clear road
map** of priority
actions and
projects

Areas of Focus



Transportation
& Land Use



Water &
Natural
Resources



Community
Resiliency



Waste &
Consumption



Buildings &
Energy

MITIGATION

Reducing Sedona's
greenhouse gas emissions



ADAPTATION

Preparing for
climate change impacts



Diversity, Equity and Inclusion



The Climate Action Plan prioritizes strategies and actions that ensure the inclusion of disadvantaged populations and promote equity in the distribution of benefits and burdens

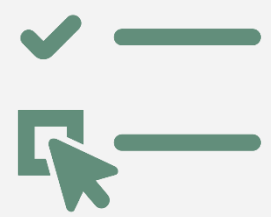


Timeline & Process Overview



SPRING 2020

SUMMER 2021



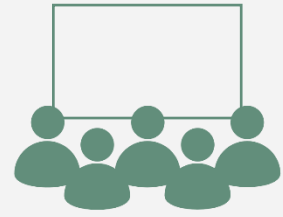
Online surveys



Stakeholder workgroups*



Updates*



Workshops*



Pop-up events & open houses*

*These events will occur throughout the CAP process.

Advisory Committee



Arizona Public Service

Arizona Water Company

Coconino National Forest

Coconino County

Friends of the Verde

Healthy World Sedona

Northern Arizona Climate Change Alliance

Sedona Chamber of Commerce

Sedona Fire District

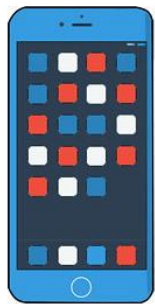
Sedona XYZ

Sustainability Alliance

Yavapai County Emergency Management

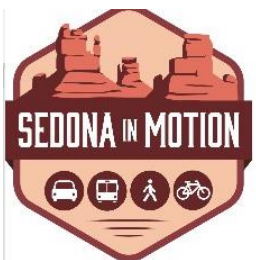


This plan will build on the great work that the City and community have already been doing... and identify additional opportunities



Household hazardous waste and electronics recycling

Sedona and Yavapai County host free household hazardous waste and electronics collection events.



Sedona in Motion

focuses on projects that reduce environmental and visitor traffic impacts, improve traffic flow, support transit, and expand walking and bike-riding infrastructure and safety.



The Verde Valley Sustainability Alliance

collaborates with non-profits to foster sustainability take action on climate change.



Oak Creek Watershed Council

and Friends of the Verde River work to protect the health of our watershed and coordinate watershed cleanups and activities.



The Municipal Sustainability Plan

which outlines clear steps to addressing sustainability and resilience in City operations over the next two years.



Sedona Recycles

which provides recycling drop-off locations and educates the community on waste reduction, reuse, and recycling.

Target Setting



City Council, community members, and the Advisory Committee identified a **target of a 50% reduction in community emissions by 2030**

Community Engagement



- ▲ 5 Virtual Open Houses
- ▲ 3 Community Surveys
- ▲ 3 Non-profit Presentations
- ▲ Over **600 community members** participated in a survey, open house, or non-profit presentation



Action List Development



Multi-criteria Analysis



Effectiveness	How likely is it the action will work to address plan goals and targets? Is the action addressing a major sustainability need?
Cost	What is the relative ease of covering the costs of the action with City budget, grants, etc.? Is the cost of inaction significant? How affordable is the action to residents/businesses?
Feasibility	Is it possible to implement the action with current capacities within the City? Are there regulatory, political, or technological constraints?
Support	Is there strong support for action from the resident and business community?
Equity	Does the action address the needs of vulnerable and historically marginalized populations? Does the action reduce vulnerability for all populations?
Co-benefits	Does the action address multiple goals, or other City or community objectives? Does the action work with other City activities to amplify the collective impact?



Changes to the Climate Action Plan

- ▲ Land acknowledgment written in collaboration with the Yavapai-Apache Nation
- ▲ Implementation matrix that prioritizes actions and assigns leads and partners
- ▲ Glossary of key terms and acronyms
- ▲ Section detailing opportunities for individual action
- ▲ Section detailing municipal goals

Meeting a 50x30 Target

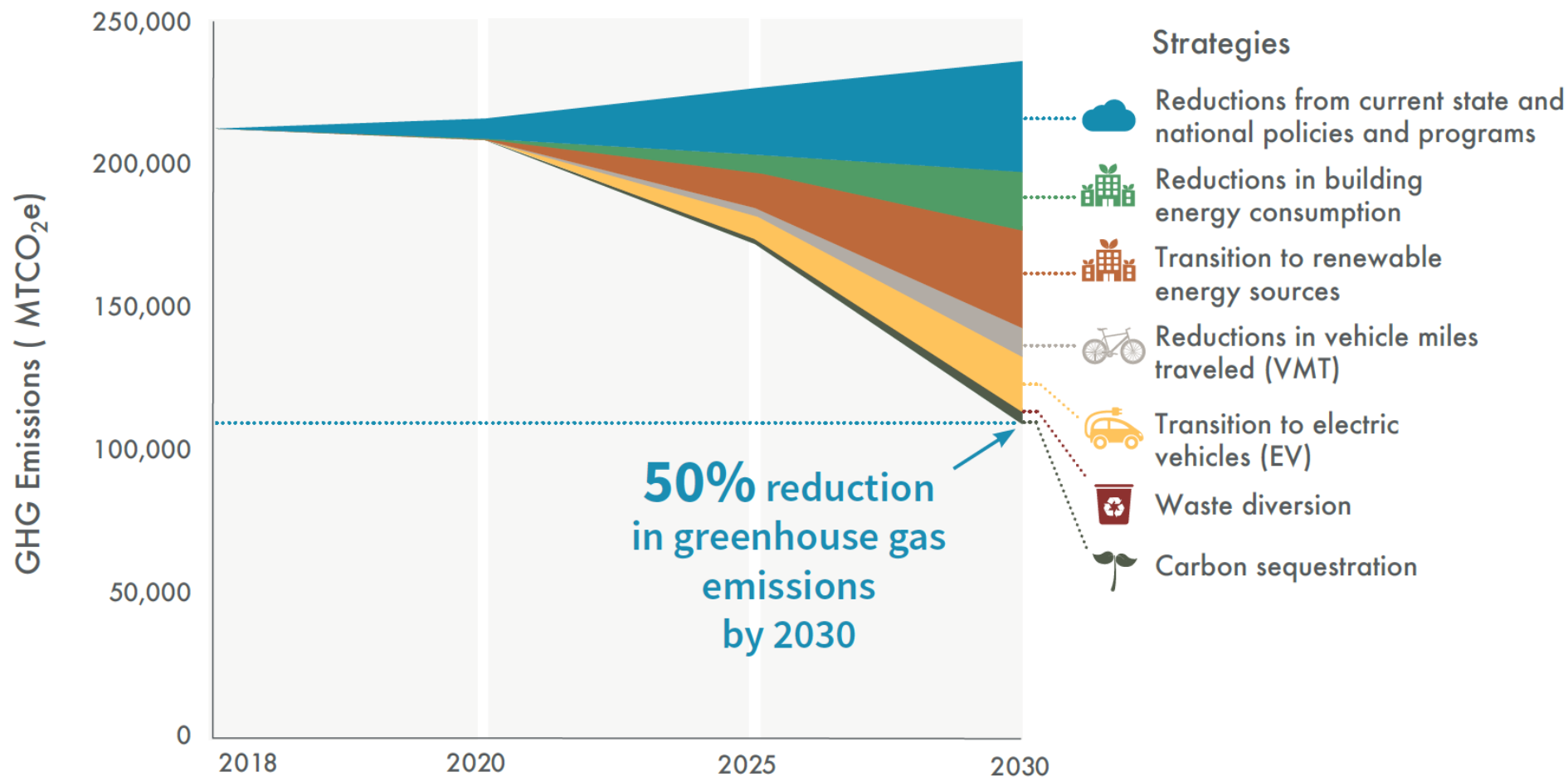


Limiting global warming to 1.5°C requires **rapid, far-reaching** and **unprecedented changes** in all aspects of society.

-Intergovernmental Panel on Climate Change



What does that mean for Sedona?





What does that mean for Sedona?

EXAMPLE ACTIONS

KEY PERFORMANCE INDICATORS (KPIs)



Energy efficiency retrofit incentives

- Reduce building energy consumption by 15%



**Rooftop solar incentives;
Electrification incentives and contractor training**

- Increase consumption of renewable energy in buildings from 27% to 50%
- Utilize 60% of suitable rooftop space for solar panels



**Bike, pedestrian, and transit infrastructure;
Transit-oriented and mixed use development**

- Reduce communitywide VMT by 10%



**EV infrastructure and incentives;
EV-ready code**

- Increase EV use to 20% of VMT



**Food waste prevention;
Communitywide organics composting program**

- Reduce amount of landfilled organic waste by 15%

External Factors



- ▲ Utility efforts to transition the grid to carbon-free energy
- ▲ State and utility investments in transportation electrification
- ▲ Federal policy related to vehicle emission standards and energy efficiency standards
- ▲ Federal investment in transportation electrification, clean technology, and carbon capture
- ▲ Falling cost of battery storage and electric vehicles



Cost of Rapid Decarbonization

- ▲ The majority of CAP implementation costs are associated with implementing the transit system and developing bicycle and pedestrian infrastructure
- ▲ The remaining CAP implementation is estimated to cost an additional \$1.3 million per year



Questions?