Climate Change is Here: What can you do?

Introduction to the Anchorage Climate Action Plan



















Changing Climate in Anchorage

Climate change boosts risk of extreme wildfires

December 16, 2016



Jeff Richardson

University of Alaska Fairbanks scientists are presenting their work at the American Geophysical Union's fall meeting in San Francisco this week. Here are some highlights of their research, as shared at the world's largest Earth and space science meeting.

A newly published report concludes that climate





rctic

Forget snowfall -- winter rain becoming new normal in Alaska and Arctic

ergy & Environment

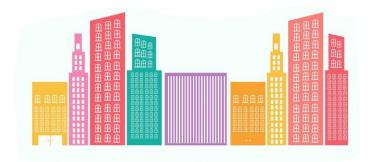
Tick, tick, tick: Alaska braces for invading parasites



What is a Climate Action Plan?

A strategic roadmap for measuring and reducing greenhouse gas emissions and preparing for the impacts of climate change.

The Municipality of Anchorage collaborated with the University of Alaska to create the Anchorage Climate Action Plan that was passed by the Anchorage Assembly in May 2019.

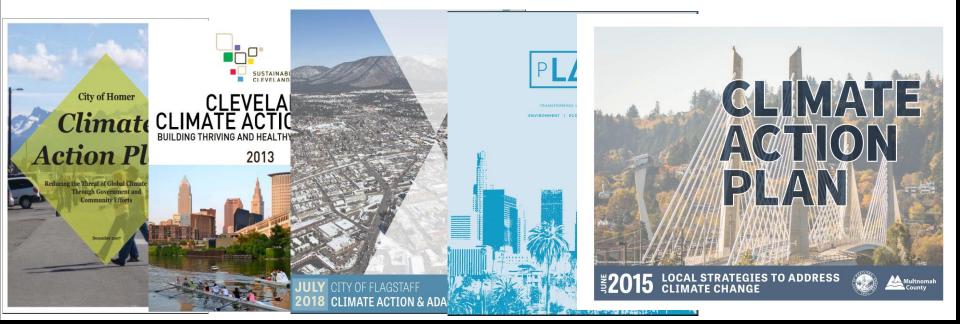


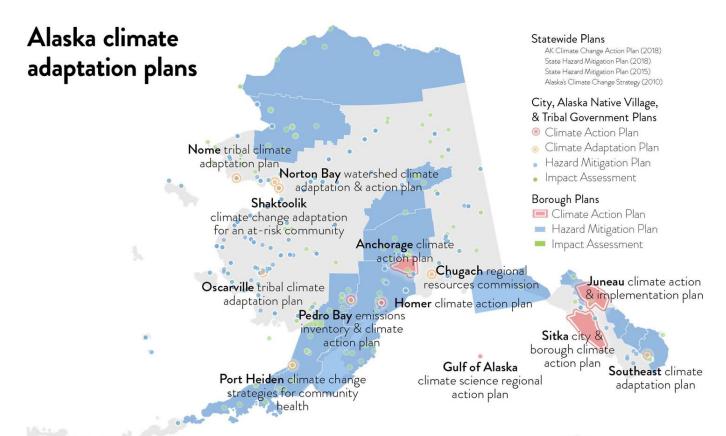
Who has a Climate Action Plan?

W**≡** ARE STILL IN

9,100 cities representing ~800 M people are now committed to creating city-wide climate action plans







Credit: Kelsey Aho, Center for Alaska Policy Studies.

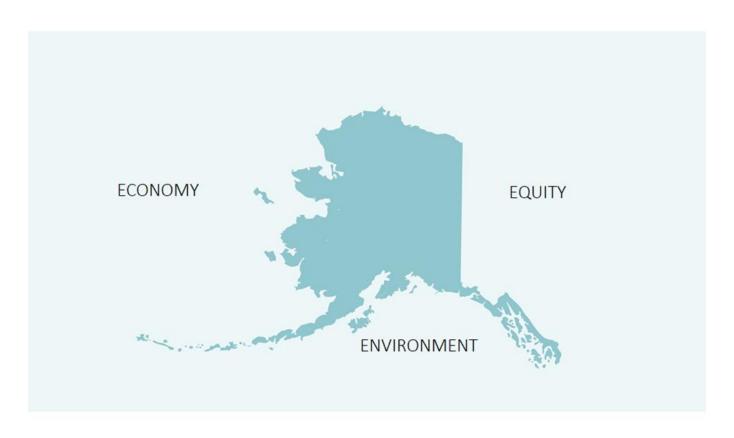
Data source:s DEECD; Meeker and Kettle, 2017



Panelists

- Mara Kimmel, Anchorage Mayor's Office, Lead, Resilience + Welcoming Initiatives
- Micah Hahn, University of Alaska Anchorage, Institute for Circumpolar Health Studies
- Shaina Kilcoyne, Municipality of Anchorage, Energy and Sustainability Manager

Anchorage: Transformation and Opportunity



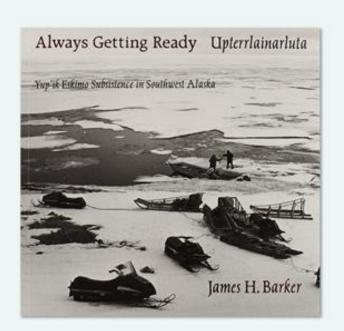
Community Values and Vision

Always Getting Ready*

SELF RELIANT

VIBRANT, VITAL CULTURES

CONNECTED with PLACE



^{*} From Barker, Upterrlainarluta - Always Getting Ready: Yup'ik Eskimo Subsistence in Southwest Alaska.

Resilience and Equity in Anchorage

Ready, Inclusive, Connected

The capacity of a community to survive and thrive through acute shocks and chronic stresses



Fires, floods, earthquakes, erosion, freeze-thaw cycles



Unemployment, inadequate housing, poverty, poor infrastructure and communication networks, social and economic exclusion



Welcoming Anchorage Roadmap

Our roadmap for an equitable, inclusive, diverse Anchorage

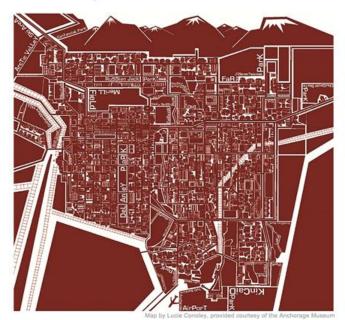




Stronger Together

Resilient Anchorage Roadmap

A roadmap for success and innovation in a time of transformation





Welcoming Anchorage Roadmap

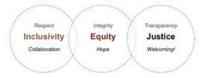
Our roadmap for an equitable, inclusive, diverse Anchorage

Our Roadmap



Our VISION is that Anchorage is a globally competitive, culturally vibrant community where every resident feels a sense of belonging and has equal opportunity to access all the community offers.

Our efforts to create a more welcoming community are instilled with the following shared VALUES



Five pillars organize and drive our welcoming activities to the VEHICLE for change in our community.

Civic Engagement

Anchorage residents are equally able to participate in civic life.

strong, resilient, and fosters a culture of nonviolence. Anchorage promotes the health and welfare of all its residents including its most vulnerable.

Connected,

Safe, & Healthy

Communities

Anchorage is a safe

community that is



Education

Newcomers to Anchorage, along with longtime diverse community members. find cradle to career opportunities within a thriving education system

Economic Development & Entrepreneurship

We activate the full and diverse economic potential of Anchorage by removing all barriers and providing resources to achieve meaningful work and entrepreneurial opportunities for our diverse

Equitable Access

All Anchorage residents have equal access to governmental and community. based services (by removing institutional systemic barriers.)







Resilient Anchorage Roadmap

A roadmap for success and innovation in a time of transformation

Our Roadmap

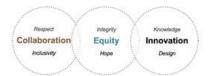


Our VISION is that Anchorage has the capacity to thrive and survive through acute shocks and chronic stresses

Fires, floods, earthquakes, erosion, freeze-thaw cycles

housing, poverty, poor infrastructure and communication networks. social and economic exclusion

Our efforts to create a more resilient community are instilled with the following shared VALUES



Six pillars organize and drive our resilience strategy:



Infrastructure improves climate readiness, equity and wellbeing.

(Energy

Anchorage is the most energy efficient city in the country.

Emergency Preparedness

Anchorage residents are prepared for emergencies.



Opportunity

Economic opportunities and entrepreneurship in emerging economies are accessible to all residents.

Health + Wellbeing

Community health and wellness is a priority and protected.

Engaged Residents + Neighborhoods

Community members are engaged and vital partners in creating a welcoming and resilient Anchorage.



ANCHORAGE Climate Action Plan





HOW WAS THE CLIMATE ACTION PLAN DEVELOPED?

CAP Ecosystem Advisory Committee Steering Committee

Buildings and Energy Consumption and Solid Waste **Food Systems Health and Emergency Preparedness** Land Use and **Transportation Outreach and Education Urban Forests and** Watersheds











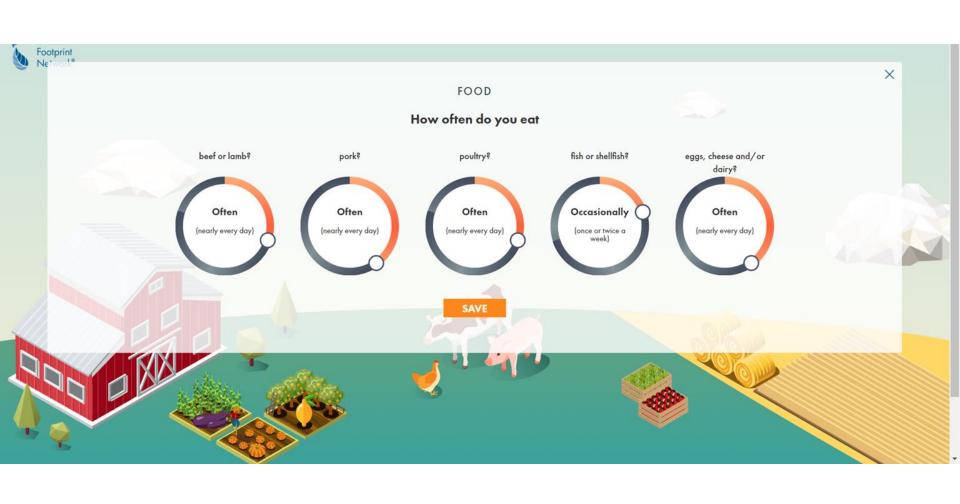


ECOLOGICAL FOOTPRINT



footprintcalculator.org







By Consumption Category



















Anchorage Climate Action Plan At a Glance



Municipality of Anchorage Climate Action Strategy

A Strategy for Good Stewardship, Good Management, and Effective Preparation for an Efficient and Self-Sufficient City

The Climate Action Plan launches us toward our key goals:

Accelerate Our Economy
Reduce costs and increase jobs



Steward Our Resources
Take care of the place we live



Prepare Our City
Build a ready and resilient city





Engage Our Residents

Involve all Anchorage residents in taking action







Distilled from the Anchorage Climate Action Plan

Actions are:

- Near-term
- Municipal-led
- High priority
- High impact

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www.muni.org/climateactionplan

BUILDINGS + ENERGY

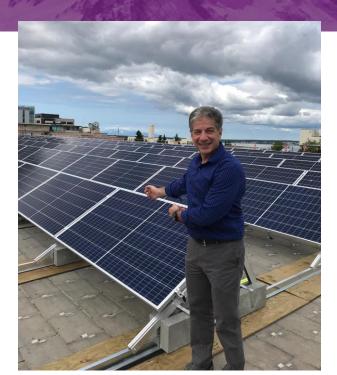
GOAL: Optimize energy use in MOA facilities to save energy and money and work with private residential and commercial building owners to support safe, healthy, and affordable buildings.

- Improve energy efficiency in Municipally owned buildings
- Increase opportunities for residents and businesses to implement clean energy technology
 - Strengthen building energy standards
 - Provide financing opportunities
 - Offer incentives
 - Reduce barriers

BUILDINGS + ENERGY

GOAL: Optimize energy use in MOA facilities to save energy and money and work with private residential and commercial building owners to support safe, healthy, and affordable buildings.

- Solid Waste Services Admin **Energy Retrofit**
- Solar Panels on Egan Center and Fire Station 10
 - Anchorage Landfill in 2020!



LAND USE + TRANSPORTATION

How do you commute? Share any successes or barriers in achieving a lower carbon transportation lifestyle.



LAND USE + TRANSPORTATION

GOAL: Improve walkability and connect neighborhoods that employ mixed-use development and diverse transportation options.

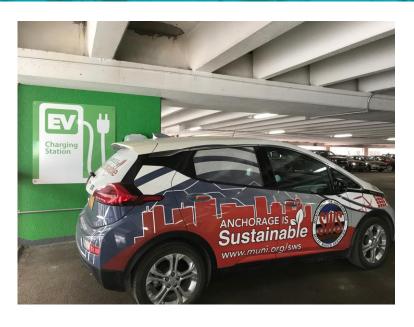
- Housing infill and redevelopment to minimize car travel and increase community resilience
- Increase use of public transit and nonmotorized transportation
- Electrifying vehicle fleets and promote energy efficient vehicles



Complete Streets: Spenard Corridor, Charles Boyle

LAND USE + TRANSPORTATION

GOAL: Improve walkability and connect neighborhoods that employ mixed-use development and diverse transportation options.



- \$950,000 for charging infrastructure in the railbelt
- Regional EV Infrastructure Plan in development
- MOA is testing EVs

Anchorage's new electric charging station downtown

CONSUMPTION + SOLID WASTE

GOAL: Develop an efficient and innovative solid waste management system that promotes sustainable consumption, recycling, and waste reduction.

- Increase recycling, composting, and other diversion of waste to increase the life of the landfill
- Capture more potential energy in collected refuse (e.g., organics digestion, mass burn, and landfill gas to energy expansion)
- Expand diversion opportunities by building a new Central Transfer **Station**

HEALTH + EMERGENCY PREPAREDNESS

GOAL: Ensure preparedness and adaptability at household, neighborhood, and municipal levels to equitably improve health and safety.

- Improve household wildfire mitigation
- Identify and develop key secondary access routes for emergency response and evacuation in the Hillside, Girdwood, Eagle River/Chugiak
- Improve language access to all residents on climate change, natural hazards, and emergency preparedness



GOAL: Support local, sustainable food systems.

- Support school and community gardens and other opportunities to expand community growing
- Encourage farmers markets to accept payment through food assistance programs
- Conduct a commercial organic waste collection pilot



Photo Credit: Michelle Fehribach



A URBAN FOREST + WATERSHEDS

GOAL: Support healthy ecosystems that increase recreational opportunities, clean air and water, and habitat for wildlife.

- Develop an urban forest management plan
- Create a stormwater utility
- Continue to support APU efforts to monitor Eklutna Watershed



OUTREACH + EDUCATION

GOAL: Inform, engage, and empower Anchorage residents and leadership to find community-led climate solutions that support a sustainable future.

- Increase outreach methods for participation in planning and new programs
- Develop an online Anchorage climate action webpage and other outreach materials
- Encourage education about climate change, energy, and the development of career and technical education programs around clean energy jobs

Climate Action Plan Implementation

Mayor's Resilience Sub-Cabinet



Anchorage Climate Action Council



Climate Action Plan Monitoring



Performance Indicators: Buildings

- Dollars saved
- Renewable energy generated
- Facilities retrofitted to increase efficiency
- Outdoor lighting converted to LEDs

Climate Action Plan Monitoring



Performance Indicators: Transportation

- Miles of bike and pedestrian infrastructure added
- Public transit ridership
- Electric vehicles in the Municipal fleet

Climate Action Plan Monitoring



Performance Indicators: Waste

- Waste converted to energy
- Materials composted
- Materials recycled
- Per capita waste reduction



What is your Climate Commitment?

Photo: Johanna Grasso

www.muni.org/ClimateActionPlan