



ANCHORAGE CLIMATE ACTION PLAN ANNUAL REPORT

2019/2020



ANCHORAGE
Climate Action Plan



UNIVERSITY
of ALASKA
Many Traditions One Alaska

WHY WE NEED CLIMATE ACTION NOW

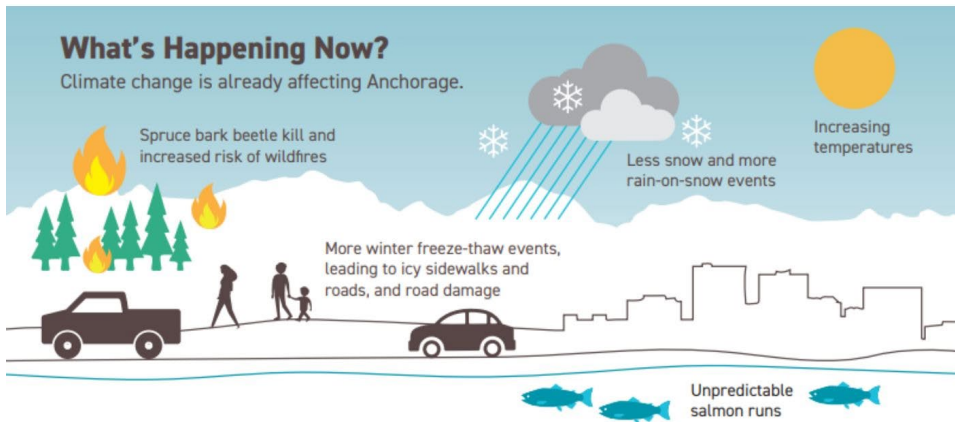
Anchorage 80 Year Running Average Temperature



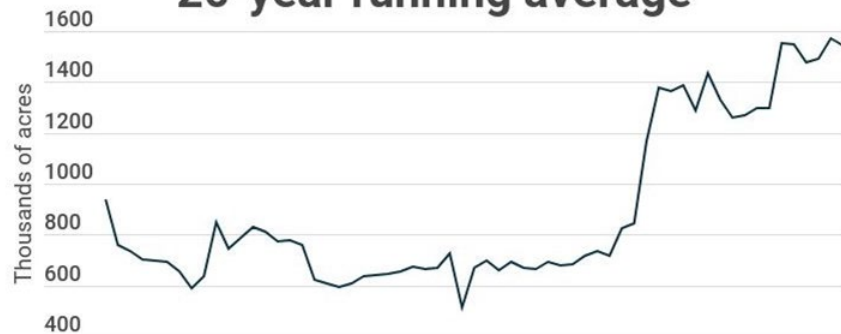
\$340 - \$700M per year: The likely annual net loss due to a warmer climate from failing infrastructure to community relocation, increased wildfire frequency and shorter ice road seasons

What's Happening Now?

Climate change is already affecting Anchorage.



Alaskan Wildfires 20-year running average



Where Do Our Emissions Come From?



Who Uses Electricity and Heat in Anchorage?



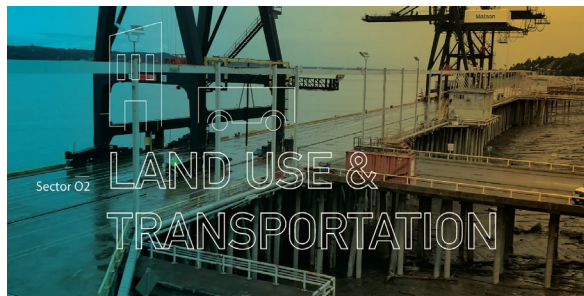
IMPLEMENTATION AND ACCOUNTABILITY

Mayor's Resilience Sub-Cabinet



Anchorage Climate Equity Council



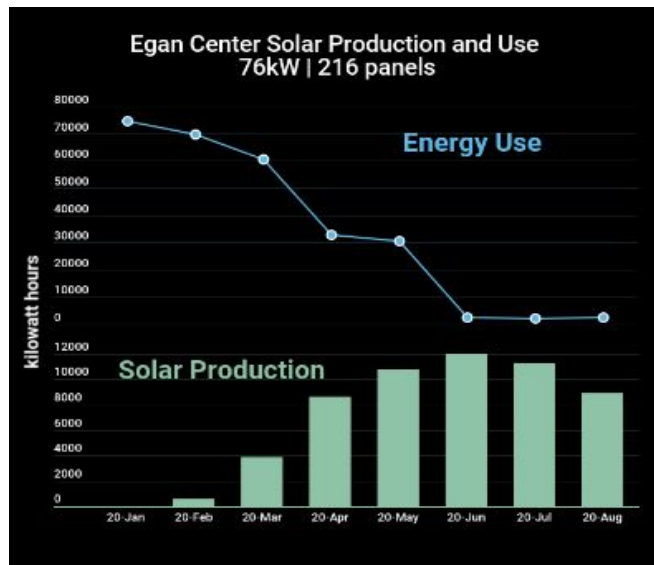
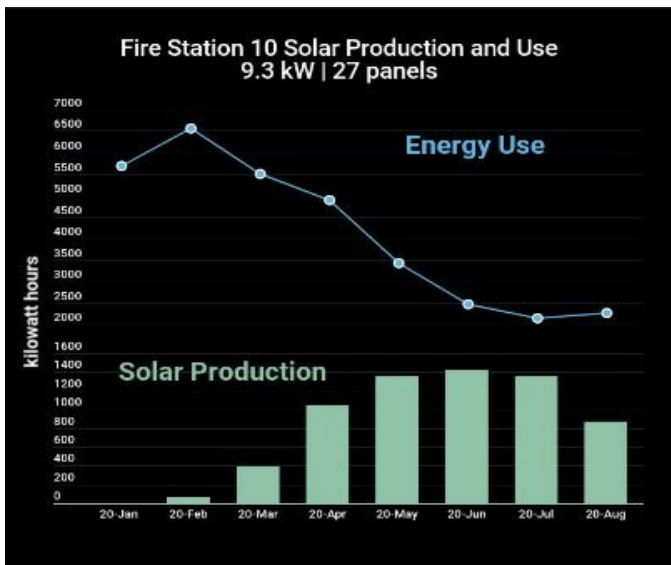


ANCHORAGE
Climate Action Plan

- Improve energy efficiency in Municipally owned buildings: 40% reduction in energy with LED upgrade
- 2018 Building Code Update
- \$2.5M CARES funding for Weatherization
- Trail LED upgrades:
 - Fish Creek Trail
 - Chester Creek Trail
 - Ship Creek Trail
 - 75% of lit Kincaid Trails
 - Beach Lake Park Trails in Eagle River
 - Russian Jack Springs Park



- Solar Bond \$2M in projects on MOA buildings
- Solar Panels on Egan Center and Fire Station 10
 - Anchorage Landfill in 2021





www.akcpace.com

www.muni.org/cpace

April 1, 12 - 1:30 PM

Lunch & Launch Webinar

- Create a clean energy tax credit program
- Establish a municipal level energy efficiency and renewable energy target
- Install at least 70 kW of solar on Municipal property
- Analyze Municipal building energy use
- Invest in cost-effective energy efficiency measures for new and existing facilities
- Create an Anchorage or State Green Bank
- Work with the Electric Reliability Organization to simplify bringing more renewable energy on to the grid



LAND USE + TRANSPORTATION

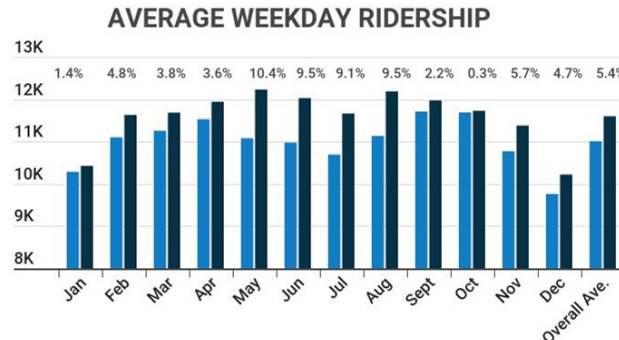
- Integrate Alaska's first electric garbage trucks (\$690k grant from Dept. of Energy + \$25k grant from Alaska Energy Authority)
- 20 new hybrid electric police vehicles
- Installed a Level 2 electric vehicle charger
- AWWU's smart plug-in timers only turn on at set temperatures



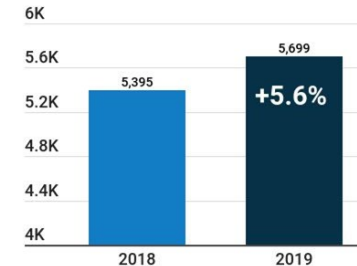


LAND USE + TRANSPORTATION

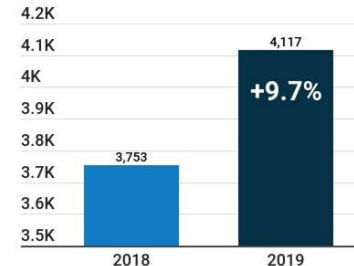
- Determined target for infill and redevelopment, focusing on Reinvestment Focus Areas
- Amended zoning code to allow mini city centers in neighborhoods to create more walkable/bikeable communities
- Amended the alternate equivalent design tool to encourage retention of existing vegetation and low-impact design
- Adopted the Spenard Corridor Plan, which focuses on transit-oriented development



SATURDAY



SUNDAY





LAND USE + TRANSPORTATION

- Complete MOA fleet inventory
- Set goal for alternative fuel and hybrid vehicles for the MOA
- Incorporate two electric refuse trucks and an electric box truck into the Solid Waste Services fleet
- Collect and share data from electric refuse trucks
- Work with new Central Transfer Station design team to include electric vehicle charging
- Continue to work with stakeholders to advise the state on distributing \$950,000 in grant funds for electric vehicle charging





CONSUMPTION + SOLID WASTE

Extend the Life of the Landfill



- Designing new Central Transfer Station
- Powered the equivalent of 68,414 homes with landfill gas
- Increased composting
- Added a glass recycling dropoff at East High

Did you know your
trash creates
energy?

SWS uses gas
created at the
landfill to power
JBER!



Compost collected by Solid Waste
Services (pounds)





CONSUMPTION + SOLID WASTE

- Increase participation of the curbside organics program
- Increase curbside organics from 320 to 450 tons
- Increase community compost from 20.3 to 22 tons
- Develop commercial level organics collection
- Complete Municipal scale composting feasibility study
- Increase recycle right outreach
- Expand glass recycling locations and capacity
- Develop leachate evaporator project at Landfill

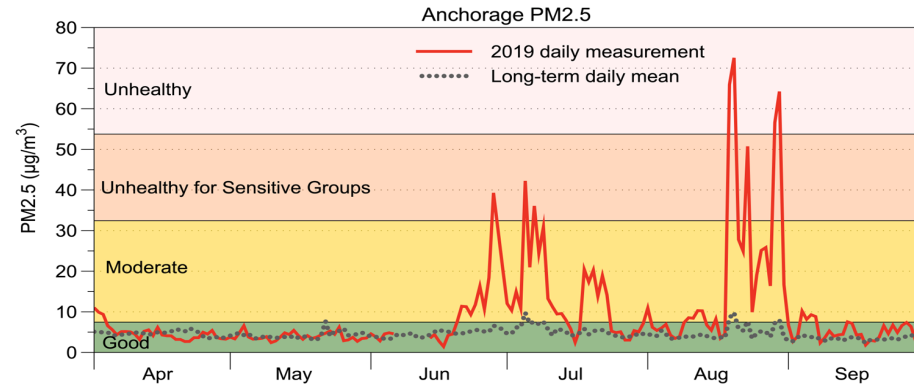
**ARE YOU UP TO THE TASK?
RECYCLE YOUR GLASS!**



HEALTH + EMERGENCY PREPAREDNESS

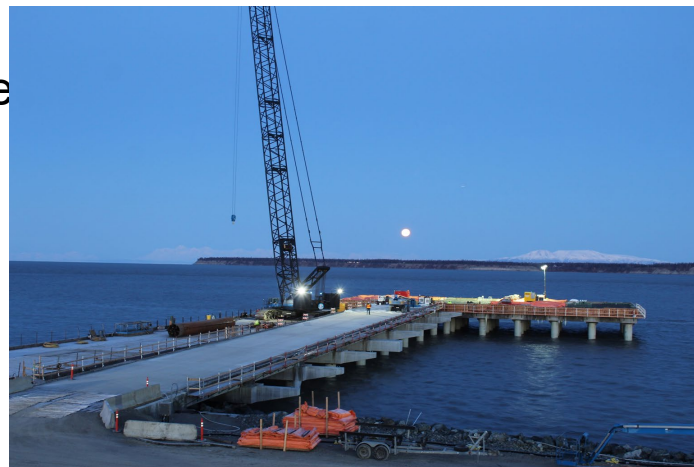
*Ensure preparedness
adaptability*

- 2019 heat and fire season
- COVID-19 Response effort
- Port of Alaska Modernization Project
- Emergency communications improvements and pre-translated common emergency messaging
- Purchased and Distributed 'go bags'



HEALTH + EMERGENCY PREPAREDNESS

- Improve language access to all residents on climate change, natural hazards, and emergency preparedness
- Work with community partners and businesses to provide household emergency preparedness kits
- Expand visibility of the Anchorage Air Quality Index
- Ensure safe drinking water supply by continuing assessments of drinking water requirements that incorporate regional population growth trends, climate data, and historical water usage patterns





URBAN FOREST + WATERSHEDS

Support healthy ecosystems

- Parks and Recreation put people to work with CARES funds: targeted beetle kill mitigation and invasive species management
- Passed local sprinkler amendment
- Advanced “life /safety access roads” bond to create secondary access in case of fire
- Assessing the costs and benefits of a stormwater utility





URBAN FOREST + WATERSHEDS

Support healthy ecosystems

- Develop an urban forest management plan to establish best management practices for MOA's urban forest
- Enhance inter-agency communication for wildfire mitigation and emergency response
- Create a stormwater utility
- Mitigate wildfire hazards of spruce beetle kill
- Expand public education about the value of watersheds, rain gardens, and low impact development to address stormwater runoff
- Support efforts to protect and restore parks, wetlands, wildlife corridors, and riparian corridors to maintain wildlife and fish habitat

- Anchor Gardens: Citywide gardening support
- Interactive Anchorage Food Security Map: UAA
- Growing community gardens

What's Next?

- Expand Local Food MiniGrant Program
- Encourage and incentivize farmers markets to accept payment through food assistance programs
- Create a procurement preference for purchasing local food
- Conduct an organics waste collection pilot project with Anchorage businesses



HERITAGE LAND BANK
MUNICIPALITY OF ANCHORAGE
UNIVERSITY OF ALASKA ANCHORAGE
ALASKA PACIFIC UNIVERSITY
ALASKA FOOD POLICY COUNCIL

ANCHORAGE URBAN
SUSTAINABILITY FARM
AND NATIVE HERITAGE
GARDEN PROJECT

PARTNERS
FOR PLACES
GRANT
OPPORTUNITY

OUTREACH + EDUCATION

*Inform, engage, and
empower*

- Inform residents about the implementation of the Climate Action Plan through Sustainability website and newsletter
- Participate in community events and forums
- Engage residents about participation opportunities through the Resident Action site
- Solicit resident input through the Climate Action Community Survey



Climate Action Plan Monitoring



ENERGY

1. Dollars saved
2. Renewable energy generated
3. Facilities retrofitted to increase efficiency
4. Outdoor lighting converted to LEDs



TRANSPORTATION

1. Miles of bike and pedestrian infrastructure added
2. Public transit ridership increased
3. Electric vehicles in the Municipal fleet



WASTE

1. Waste converted to energy
2. Waste diverted to compost
3. Waste diverted to recycling



www.muni.org/ClimateActionPlan

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Energy and Sustainability Division