

SECTORS FOR CLIMATE CHANGE
IMPACTS, ADAPTATIONS AND OPPORTUNITIES

INTERIOR ISSUES COUNCIL CLIMATE TASK FORCE
We recommend building a task force work team to include these areas:

	IMPACTS	MECHANISM
1.	Public and Private Infrastructure; Facility Administration & Maintenance FNSB Department: Public Works, Solid Waste, Facilities Maintenance	Permafrost thaw – damage to public and private infrastructure (i.e. roads, airport runways, sewer & water systems, buildings, bridges, etc.)
2.	Emergency Response/Preparedness FNSB Departments: Emergency Operations, Public Works, Rural Services,	Increased wildfire activity – fire suppression; evacuation, Red Cross, communications, logistics coordination, etc. Permafrost thaw - Toxic/hazardous release from compromised tank farms, sewage lagoons, garbage dumps, oil pipeline Changes in seasonality, winter freezing rain events – police and emergency response for traffic accidents Changes in seasonality, warmer spring and autumn temps – emergency response, hazardous travel on partially frozen waterways Changes in precipitation and permafrost thaw – potential flooding
3.	Public Health FNSB Departments: Emergency Operations, Transportation, OTHER?	Increased wildfire activity – air quality/ smoke Summer heat-waves Insects Disease
4.	Land Use FNSB Department: Land Management	Increased wildfire activity – on-going maintenance for hazard fuel reduction Permafrost thaw Changes in seasonality, warmer spring and autumn temps. – changes in vegetation, invasive species
5.	Hydrology and Water Resources FNSB Department:	Changes in precipitation and permafrost thaw – water supply and access, water quality; potential flooding (see also Emergency Response)
6.	Borough Administration & Intergovernmental FNSB Department: Mayor’s Office	State and/or federal CO ² mitigation policy – direct and indirect costs of potential mitigation policy, potential incentives for renewable energy development Coordinate with state and federal climate change activities
7.	Tourism & Recreation FNSB Department: Economic Development	Increased wildfire activity – potential impacts re summer smoke Changes in seasonality – decreased reliability on good snow for winter recreation (dog mushing, snow machining, skiing, dependable sub-zero conditions for ice

		festival), potential changes in habitat and migrations of game animals (hunting), song birds and migratory water fowl.
8.	Subsistence and Other Native Impacts Representative from Tanana Chiefs Conference	Changes in seasonality and precipitation – changes in vegetation, animal and fish habitat and migrations
9.	Other Economic Impacts FNSB Department: Economic Development	Permafrost thaw, increased wildfire activity, changes in seasonality – impacts on mining industry, insurance, cost financing, military (including Stryker training), energy providers (ice roads for oil exploration, infrastructure, cost of energy)
	OPPORTUNITIES	MECHANISM
1.	Potential increased economic activity from fire fighter service FNSB Department: Economic Development	Increased wildfire activity
2.	Opportunity for increased agricultural activity, including biomass for fuel to match increased demand for biomass for energy generation and land use planning. FNSB Department: Economic Development	Changes in seasonality, warmer spring and autumn temperatures, increased precipitation
3.	Economic opportunities in jobs and increased borough cost savings FNSB Department: Facilities Maintenance	Borough purchasing, energy conservation (including heating and lighting), reduced consumption and waste, retrofitting, recycling Increased demand for local employment in energy raters, designers, builders, and skilled labor in retrofit projects Potential for cost savings in planned infrastructure retrofit rather than full replacement; embodied energy (see #1 under Impacts). Saved money stays in the community
4.	Opportunities for attracting tourism and retirees FNSB Department: Economic Development	Changes in seasonality, warmer spring and autumn temps.
5.	Transportation FNSB Department: Transportation	Opportunity for energy conservation, CO ² mitigation. Potential for double advantage w/ PM 2.5. Transportation corridor planning (including bike paths), public transit options
6.	Construction FNSB Department: Economic Development, Facilities Maintenance	Changes in seasonality – more cost effective construction season (shorter winter, longer summer).

	Additional Team Members	
1.	Science Advisor UAF Scientist	To help task force work team understand the scientific aspects of climate change, projected regional impacts, the confidence of projections and scientific research related to climate change.
2.	Outreach and Education FNSB Department: Mayor's Office FNSB School District UAF Co-operative Extension Service	To build communication between the task force work team, the larger Fairbanks community, the public, and the schools.
3.	Financial Expert	To locate financial resources to ensure milestones can be completed.

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