Implementing Asset Management by Becoming More Climate Resilient

What are Climate Vulnerabilities?

Climate vulnerabilities are our inability to cope with impacts and stresses from changes and extremes in our climate (i.e. climate hazards).

Why are they important to understand?

- ▶ Our community services and systems (infrastructure and ecosystems) are affected by climate hazards
- ▶ Most existing infrastructure was built to perform in a climate that no longer exists
- ▶ Outcomes of climate risks are often significant and irreversible
- ▶ Past experiences can't be used to predict the future; however, we have valuable knowledge that can help guide our future decisions

NWT's Common Climate Change Hazards

Hazards are any source of potential damage, harm or adverse health effects on something.

Risk is the chance that something or someone will be harmed if exposed to a hazard.



Source: NWTAC 2018 Climat Change Forum and Charrette

In recent years there have been more extreme wildfires than ever seen before. There have been record highs and lows for water levels, resulting in both flooding and drought. Permafrost is thawing, and there has been heavier, wetter snow. As a result, the stability of our community buildings and infrastructure is a concern. The coastline is eroding and so are rivers, affecting where we live and how we travel. The ecology is changing, and distressing our native food sources. There have been more tornados, and an increase in storm surges. There is also less sea ice. We're expecting these trends to continue at an alarming rate.

Can we help with your Asset Management Program?

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What is a Climate Vulnerability Assessment?

A Climate Vulnerability (or Risk) Assessment is a tool for understanding our community's weaknesses and creating a plan for adapting to reduce or eliminate them; in other words, how our community can reduce its exposure to, or risks from, local climate change impacts.

Key steps include:

- ► Understanding the local climate change situation, and in particular the hazards your community experiences
- ► Evaluating how the infrastructure systems or services could be affected, and to what degree
- ▶ Determining what measures have, or can be, put into place to reduce the potential impact from each hazard
- ► Preparing and implementing a plan for taking action to reduce your community's climate vulnerabilities

A worksheet has been prepared to support communities in undertaking a climate vulnerability assessment.



