

THE CLIMATE IN SAINT JOHN IS CHANGING.

Why?

The Greenhouse Effect is a natural process that controls Earth's climate by trapping greenhouse gases (GHGs) in our atmosphere and warming the surface. This process is being altered by the dramatic increase in emissions from

human sources. As GHGs continue being emitted, the planet will continue to warm at an irreversible rate resulting in changing weather patterns and creating challenges for municipalities around the world.

What can we expect?

- Higher average temperatures resulting in warmer winters and hotter summers.
- More rainfall and less snowfall annually.
- More frequent and intense extreme weather events including post-tropical and ice storms.
- Extreme rainfall events resulting in inland flooding in low-lying areas.
- Flooding and loss of land due to sea level rise in coastal areas. **High tide level is estimated to increase 1.3 metres by 2100.**
- Increased storm surge resulting in temporary flooding.
- Coastal erosion in areas exposed to storm surge and sea level rise.
- Habitat loss and coastal squeeze.
- Flooding along the St. John River valley during spring-freshet.
- Stormwater drainage management during periods of heavy rainfall.
- Urban water quality challenges.

Municipality: Saint John

