

Consultant Scope of Work

Climate Risk Screening Assessment

The primary objective of a Climate Risk Screening Assessment (CRSA) is to identify and evaluate the risk that climate hazards may have on infrastructure, the natural environment and human users of the asset over its lifetime. An assessment results in recommended adaptation measures to decrease the impact of these hazards, reduce vulnerability and enhance adaptive capacity of the infrastructure to climate change.

These assessments are used to make climate informed decisions during project planning and design. They aim to reduce climate risk over the project's life cycle and use The City's latest [climate projections](#) information.

Requirements

The Consultant shall conduct a CRSA utilizing the CRSA screening tool to quantify climate risks relevant to the infrastructure. The process of a CRSA includes:

- Identifying the assessment boundary as it relates to the site, building, and uses/occupancies.
- Utilizing the time period in which the project is anticipated to experience viable lifecycle as defined in the Project Charter, Scope of Work, or other project document.
- Identifying Infrastructure Asset Categories, Systems, and Components (built, human, natural/landscape, other special systems as applicable)
- Identifying all climate impacts to which the project is vulnerable. This will be based on known climate events and Calgary climate projections. Consultant shall refer to The City's Climate Risk Assessment Process Guide for direction on Calgary's nine (9) key climate hazards.
- Identifying adaptation measures to reduce risk to the highest risks identified (medium, high and extreme).
- Indicating the adaptation measures that will be included in the design of the infrastructure and noting any barriers that may exist to implementation, as well as existing risk reduction measures (if applicable) and the associated adaptive capacity.
- Creating a short summary report using the CRSA Summary Report template provided by The City.

Deliverables

- The CRSA excel spreadsheet and CRSA Summary Report will be submitted to The City Project Manager and SBP Steward prior to Schematic Design completion.
- Project teams are required to include a climate resilience summary in the Design Development report. The resilience summary will include the adaptation measures that will be included in the design that reduce climate risk.

References

- Climate risk assessment framework, [Climate Risk Framework and Processes](#), 2024