MISSISSAUGA

GUIDE FOR PREPARING GREENHOUSE GAS (GHG) REDUCTION STRATEGY

Use the information provided below for support in preparing your Greenhouse Gas (GHG) Reduction Strategy.

As part of the requirements to bid on this procurement, bidders are required to submit a Greenhouse Gas Reduction Strategy describing the actions they will take to reduce the amount of greenhouse gas emissions generated in the project or manufacturing of product, inclusive of Scope 1 and 2, and Scope 3 greenhouse gas emissions where possible and provide an overview of how this will be measured.

Purpose of this requirement: Tell us how your organization will reduce Greenhouse Gases (GHGs) during this project. These gases come from things like trucks, equipment, and making products.

What could be included in a Greenhouse Gas (GHG) Reduction Strategy:

- ✓ Steps being taken to reduce pollution in this project.
- ✓ Use of energy-saving equipment or vehicles during this project.
- ✓ Programs to help reduce emissions as part of this project.
- ✓ How progress will be measured.
- ✓ Any other GHG reduction initiatives.

EXAMPLE STRATEGIES

The strategies outlined below are examples that may satisfy the requirements. Please use them as guidelines and adapt them to meet the specific needs of the procurement and your organization's commitments. The submitted strategy will form part of the procurement contract.

Example A - Greenhouse Gas Reduction (GHG) Strategy

1. Introduction

This Greenhouse Gas Reduction Strategy outlines our strategies to reduce greenhouse gas (GHG) emissions, improve resilience, and contribute to the City's climate goals.

2. Objectives of This Plan

- Reduce GHG emissions associated with project delivery.
- Promote low-carbon materials and technologies.
- Align with the City of Mississauga's Climate Change Action Plan and other applicable frameworks.
- Support community climate resilience and adaptation.

3. Greenhouse Gas (GHG) Emissions Reduction Commitments:

- Fleet Decarbonization: Transition at least 50% of our project vehicles and equipment to electric or hybrid models by the end of 2030.
- Efficient Logistics: Optimize delivery routes and consolidate shipments to reduce fuel usage by at least 15% per project.

Measurement:

- Annual GHG Inventory for fuel, electricity, and transportation emissions.

4. Low-Carbon Materials & Construction Practices Commitments:

- Supplier Standards: Partner with suppliers that have formal environmental certifications or emissions reduction programs.
- Circular Economy Initiatives: Maintain and improve our current process for recycling old surfacing materials and diverting waste from landfills.

Example B - Greenhouse Gas Reduction (GHG) Strategy

1. Introduction

This Greenhouse Gas Reduction Strategy outlines our approach to reducing greenhouse gas (GHG) emissions, enhancing energy efficiency, managing environmental risks, and supporting the broader sustainability goals of our clients.

2. Commitment to Sustainability and Climate Action

We are committed to:

- Supporting the transition to a low-carbon economy.
- Designing, installing, and maintaining mechanical systems that minimize environmental impact.
- Aligning our operations in accordance with national and international climate targets (e.g., the Paris Agreement, Net Zero 2050 goals).
- Promoting sustainable practices within our workforce and supply chain.

3. Key Objectives

- Reduce carbon emissions associated with project delivery.
- Optimize energy efficiency of installed systems.
- Minimize construction waste and promote recycling/reuse.
- Engage with stakeholders to promote sustainable solutions.
- Integrate climate risk mitigation strategies into project planning.

4. Climate Mitigation Strategies

4.1. Low-Carbon Equipment and Materials

- Preference for high-efficiency HVAC equipment (e.g., inverter-driven compressors, VRF systems).
- Use of refrigerants with low global warming potential (GWP) in compliance with Gas regulations.
- Sourcing materials from suppliers committed to sustainable practices and verified environmental credentials (e.g., ISO 14001)

4.2. Energy-Efficient Design and Installation

- Collaboration with clients and consultants to ensure mechanical systems are designed for optimal energy performance.
- Implementing commissioning and testing protocols to validate energy efficiency.
- Advising on renewable energy integration (e.g., heat pumps, solar thermal systems).

4.3. Transportation and Logistics

- Reducing emissions from site transport through vehicle fleet efficiency (e.g., EVs, route optimization).
- Encouraging carpooling, public transport, and remote coordination where possible.

5. Climate Adaptation Strategies

- Ensuring mechanical systems are resilient to temperature extremes, flooding, and other climate-related risks.
- Designing systems with future climate conditions in mind (e.g., increased cooling demand).
- Monitoring and managing indoor air quality in changing environmental conditions.

6. Monitoring and Reporting

- Track energy use and emissions for major projects.
- Report environmental KPIs to the Contract manager.
- Conduct internal audits and reviews to ensure continuous improvement.

7. Training and Awareness

- Train staff and subcontractors in sustainable work practices and climate risk awareness.
- Toolbox talks on energy efficiency and environmental compliance.
- Encourage innovation in sustainable mechanical systems design and implementation.

8. Collaboration with Clients and Stakeholders

- Work collaboratively with clients to meet sustainability targets (e.g., LEED, ORAC).
- Support clients in lifecycle cost and carbon assessments.
- Provide documentation and data to support environmental certifications and regulatory compliance.