

# GTAA Environment Program Overview

# GTAA Environment Program: Overview



## GTAA New Environmental Policy

Net Zero GhG and  
Zero Waste by  
2050

## GTAA Environmental Policy

The Greater Toronto Airports Authority (GTAA) strives to be a leader in environmental management and recognizes the impacts of airport operations and development on the environment. The GTAA embraces our corporate responsibility as a steward of the environment and will manage environmental issues effectively by: ensuring regulatory compliance, employing best management practices, and being innovative in reducing our environmental impact. The GTAA will shape an environmentally responsible future through our commitment to, and achievement of, the GTAA Environmental Strategy as outlined below.

The GTAA's Environmental Strategy focuses on:

- Mitigating our environmental impact through identification and continuous improvement of seven focus areas and their associated significant environmental aspects;
  - 1) Climate Change Resiliency: Taking the appropriate steps to be resilient to the risks of climate change, by assessing how climate change will create new, or alter current, climate-related risks; and mitigating those risks.
  - 2) Carbon Neutrality and Emissions: reducing our emissions footprint, by improvement in operational efficiency and investment in projects for the direct reduction and/or offset of energy consumption and GHG emissions to achieve net zero GHG by 2050.
  - 3) Strategic Energy Use: ensuring the responsible use of energy throughout our business via energy conservation, improving energy efficiency, and giving preference to renewable over non-renewable energy sources.
  - 4) Water Management: managing our water resources through water conservation efforts, water quality management, and addressing flood risk issues thereby protecting the region's water supplies.
  - 5) Natural Environment: minimizing our impact on the natural resources around us by balancing the protection of plants and wildlife with aviation safety, and supporting partnerships with the community to restore greenspaces
  - 6) Waste Management: by reducing or eliminating the use and generation of non-recyclable, or non-compostable, materials that are generated across operations and construction by implementing programs to achieve a Zero Waste certification by 2050.
  - 7) Noise Management: reducing operational impacts on surrounding communities through a best in class Noise Management Program; focusing on the reduction of noise at source, land use planning and management, noise abatement operational procedures and operating restrictions
- Being an environmentally responsible neighbour in the communities where we operate, through
  - Engagement with our employees, regulators, customers, suppliers, communities and other interested stakeholders
  - Transparency in external reporting and in dialogue with stakeholders
  - Expanding partnerships and continued collaboration with industry stakeholders



Deborah Flint  
President and CEO

Greater Toronto Airports Authority, 2021



# Approach

## Aligned to International Standards and Science



## Benchmarking



## Stakeholder Feedback



# PROPOSED LONG-TERM GOALS AND DIRECTION



## **GHG & Emissions** : Net zero GhG airport by 2050.

- Mitigating the Corporation's contribution to greenhouse gas and other air emissions.



## **Energy** : 100 % Clean Energy by 2050.

- Minimizing energy consumption and associated costs



## **Climate Change Resilience** : Full integration of all aspects of climate resilience into operations and asset development processes by 2025.

- Ensuring that the Corporation's infrastructure is resilient to effects of climate change



## **Waste** : Airport-wide zero waste certification by 2050.

- Diversion of waste from landfills and minimizing waste produced.



## **Water** : Long term water conservation target based on water consumption baseline & audits.

- Management of water quality and conservation of water resources.



## **Natural Resources** : Preservation of the creek valley green space, management of invasive species, and continuation of the honeybee apiary.

- Protection of the Corporation's green spaces & wildlife; rehabilitate green spaces in the community



# CLIMATE RISK

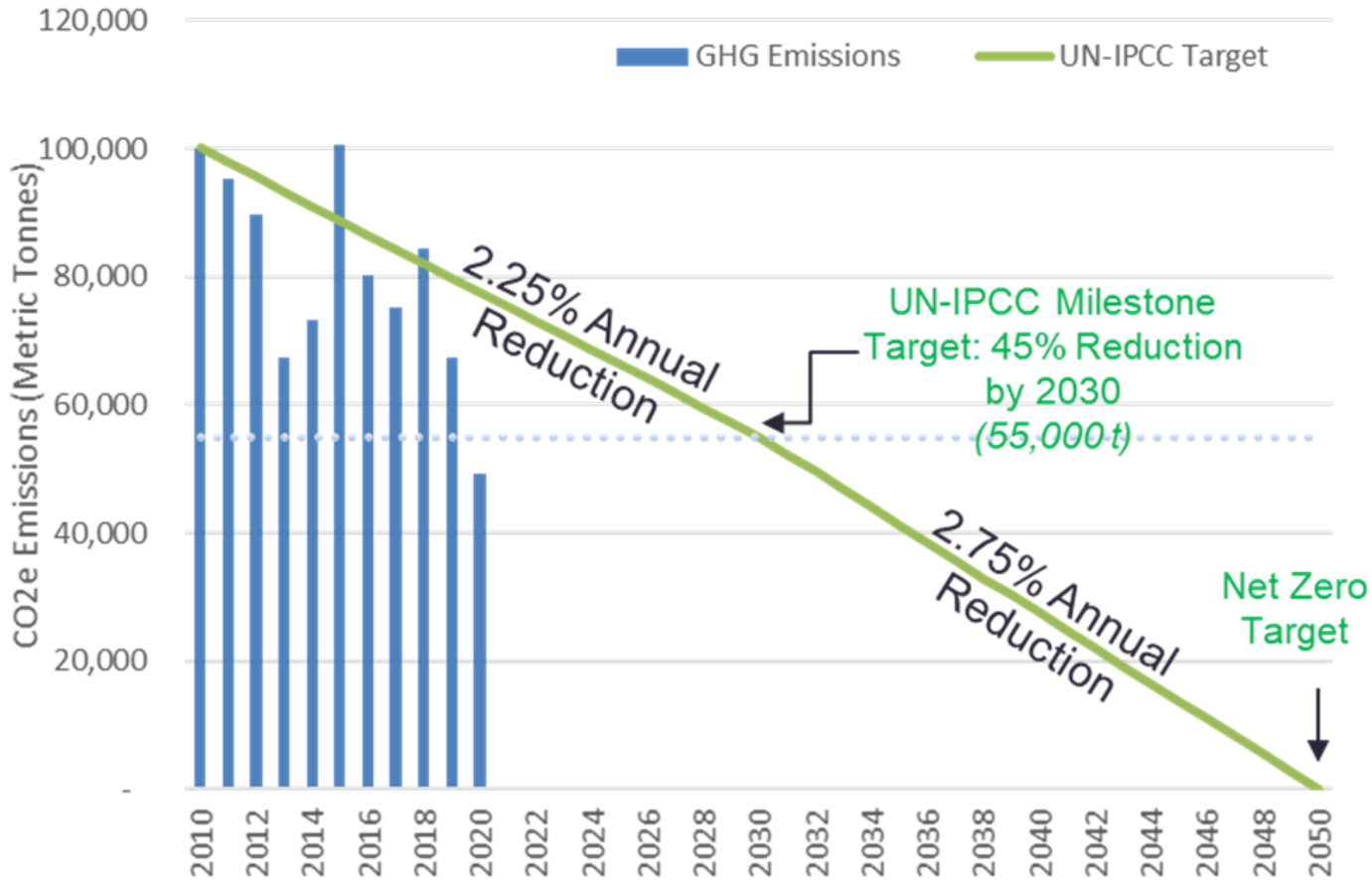
## Climate Change Adaptation/ Resilience



## Climate Change Mitigation

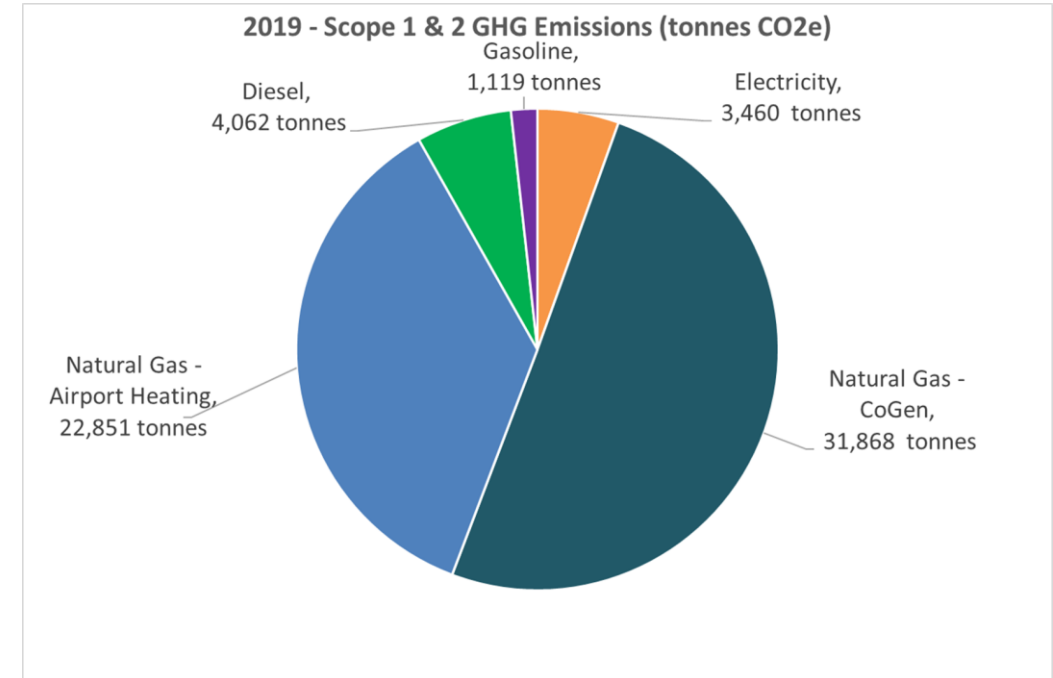


# GTAA-Controlled GhG: Path to Net Zero by 2050 Item 5.1



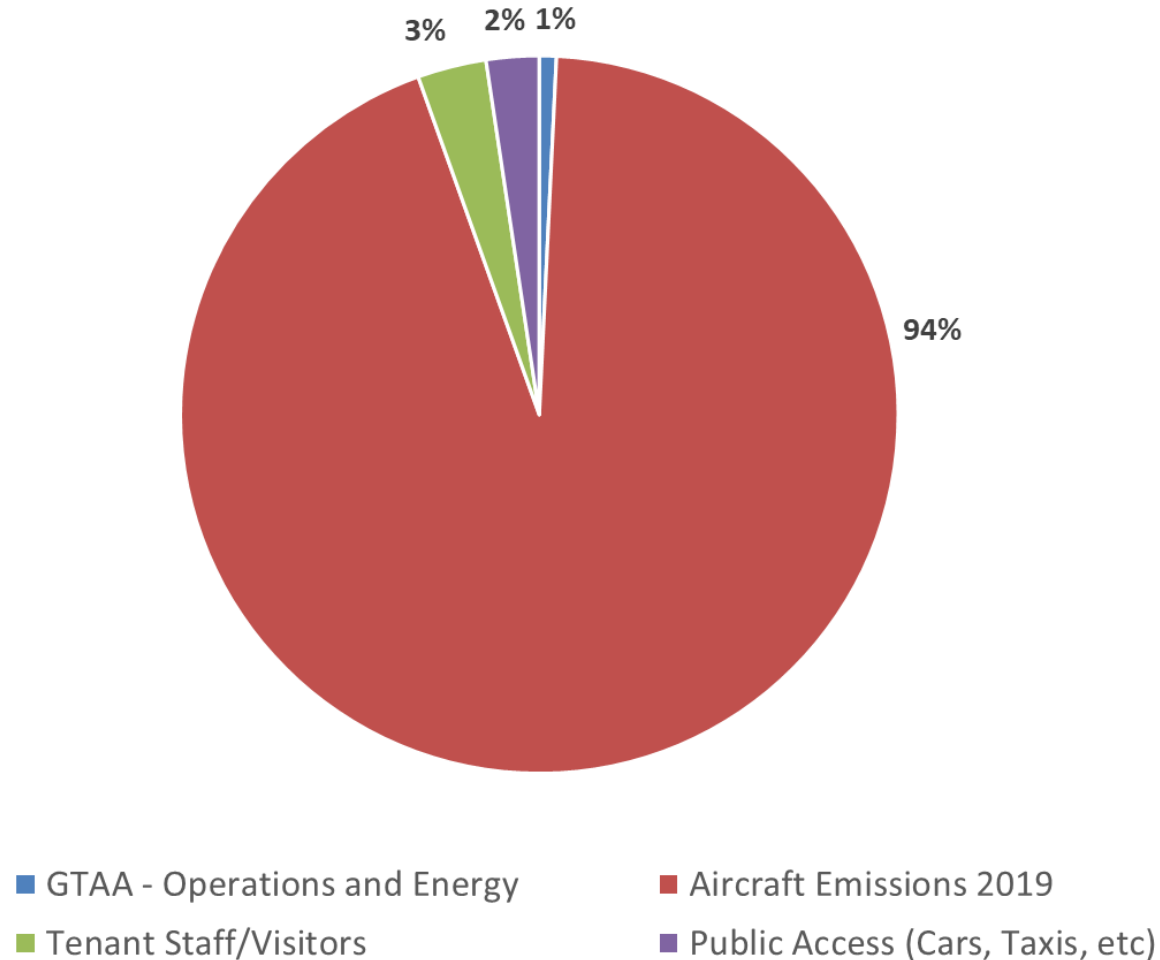
## Key Levers to reach net-zero:

- Energy Efficiency (use less)
- On-site clean energy (heat, electricity)
- Electrification/ Fuel switching (e.g. EVs)
- Purchase off-site clean power



# Total GTAA GhG (Controlled and Influenced)

Carbon Emissions at YYZ 2019



## Policy considerations to influence GhG reductions:

- SAF supply chain
- Cleaner aircraft engine technologies
- More efficient movement of aircraft (RNP, ACDM)
- Mandate electric GSE
- Public Transit
- Carbon Offsets

## Aviation Industry GhG targets:

IATA: reduce GhG to half of 2005 levels by 2050  
ICAO: carbon-neutral growth from 2020 onward

## 4 key actions to reduce aviation GhG (per IATA):

1. Cleaner engine technologies
2. Operational (weight saving opportunities)
3. Infrastructure (e.g. RNP, ACDM)
4. SAF deployment



# APPROACH TO NEXT STEPS



Prioritize highest benefit, lowest lifecycle cost solutions.



Pursue innovative business models to fund initiatives.



Embed circular economic principles in projects and operations.



Engage Stakeholders.



Heat and hot water generated from sewage in Straubing, Germany.

# Questions?