

About TAF

TAF is a regional climate agency that invests in low-carbon solutions for the GTHA and helps scale them up for broad implementation.

With a diverse team of experts, TAF partners with stakeholders from the private, public, and non-profit sectors to drive impactful carbon reduction initiatives.

TAF advances promising low-carbon concepts through strategic investments, grants, policy influence, and targeted programs.

2024 Focus Areas



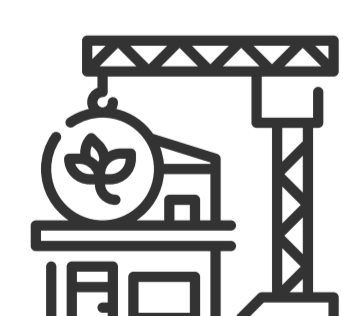
Accelerating Retrofits: Building emissions rose by over 9% in 2022.

Retrofits are essential for immediate carbon reduction, energy efficiency, and operational savings. TAF aims to quintuple the retrofit pace by boosting market activity, improving policies, and driving innovation in retrofit delivery.



Accelerating EV Uptake: The transportation sector, responsible for 36% of

GTHA's carbon emissions, saw a 9% increase in 2022 emissions. TAF is focused on rapidly electrifying transportation, supporting EV adoption through expanded charging infrastructure, and spurring the electrification of the vehicle-for-hire sector.



Accelerating Net-Zero-Ready New Construction: Given the critical need

for reducing building emissions, TAF is advocating for stringent energy and carbon requirements in new construction. They also focus on supporting financial programs and addressing technology gaps to achieve near-zero carbon buildings by 2030.



Accelerating Net-Zero Electricity: GTHA electricity emissions surged by

26% in 2022, largely due to increased natural gas use. TAF is working to advance cleaner, more affordable electricity solutions by promoting policies, investments, and renewable energy alternatives to counter the reliance on natural gas plants.

My Role with R&I

The Research & Innovation team at TAF drives climate action by analyzing trends in GHG emissions and assessing the potential carbon reduction impact of TAF's projects and initiatives. I contributed to this mission through:

- ▶ **Carbon Impact Analysis:** Supporting the update of TAF's annual GTHA carbon emissions inventory and modelling the carbon abatement of TAF's grants/investments to quantify impact
- ▶ **Strategic Research:** Engaging in strategic research projects, including developing a briefing on the state of mass-timber construction in Ontario
- ▶ **Communications:** Summarizing key research findings for internal working groups to help inform innovative decarbonization initiatives

Insights and Takeaways

Advanced quantification and modelling techniques help TAF prioritize carbon reduction initiatives with the greatest potential impact. Continual refinement of GHG inventory methodologies ensures that stakeholders have access to the most accurate sustainable development insights.

Innovation in mass timber is advancing its use in the new construction, significantly reducing carbon emissions by replacing traditional materials like concrete and steel. European progress in this area underscores the importance of government-industry collaboration to build up manufacturing capacity while standardizing digital designs, building regulations, and insurance frameworks.

TAF exemplifies cross-functional collaboration through its integrated teams in Campaigns & Communications, Impact Investing, Grants, Policy, and Research & Innovation. This has been key to developing comprehensive and robust climate solutions.