

Markham develops Near Net Zero Roadmaps for 4 community centres and 3 fire stations

The Challenge

The City of Markham is on a Net Zero Carbon journey. There are many studies, funding requests, equipment reviews, and long-term planning needed in order bring this to life. The journey began in Q3 2020 and they have made significant strides toward this vision.



The Solution

Below is an outline of the journey so far:

- **Q3 2021** - Completed net-zero roadmap study for Mount Joy Community Centre in cohort study with 6 other municipalities
- **Q4 2021** - Applied to Infrastructure Canada's Green & Inclusive Community Building (GICB) program to retrofit Mount Joy CC to near net-zero emissions
- **Q4 2021** – Applied to FCM's Community Building Retrofit program for study grant funding
- **Q1 2022** – secured internal funding for Mount Joy's Approaching Net-Zero Emissions retrofit pilot project. Most major equipment has reached end of life and is coming due for replacement.... funding was available in the next 5 years to replace those assets
- **Q2 2022** – Completed net-zero roadmap studies of 3 fire stations (facilities selected based on aging assets coming due for replacement)
- **Q2/Q3 2022** – initiated capital budget request process to fund deep energy & GHG retrofits of 1 fire station and 3 community centres
- **Q3 2022** – completed net-zero roadmap studies for 3 community centres (facilities selected based on aging assets coming due for replacement)
- **Q3 2022** - Applied to Infrastructure Canada's GICB program for 2 community centres
- **Q4 2022?** - Apply to GICB program for 4th community centre when application window reopens
- **2023** – commence detailed design and construction to complete deep energy & GHG retrofits at 5 facilities. This initiative has not started yet.

Measurable Outcomes

	Description
Challenge	Secure funding to pilot low-carbon solutions and achieve near Net Zero Carbon
Solution	Complete studies, submit funding applications, pilot solutions, scale up
Buildings in study	4 community Centres, 3 fire stations
GFA impacted	412,000 sqft advancing to pilot stage
GHG reduction expected	1,213 tonnes/year if all 5 pilot projects are implemented