



Climate and Sustainability Program Update

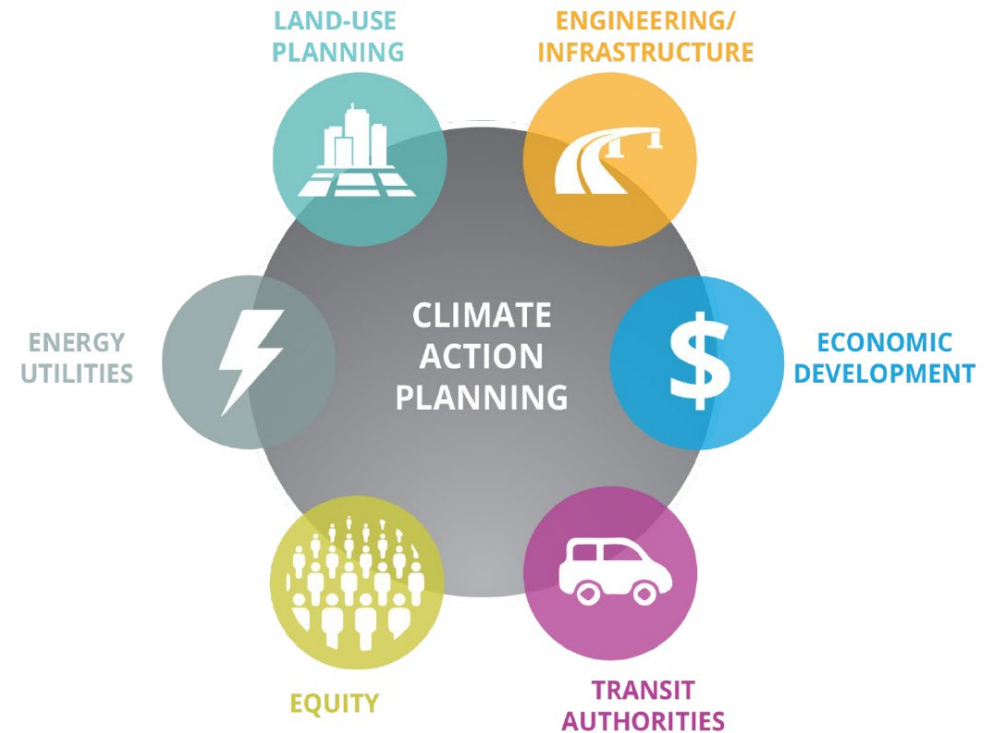
Ian McVey, Manager of Sustainability, Office of the
CAO

September 27, 2021

Why does community-scale climate action matter?

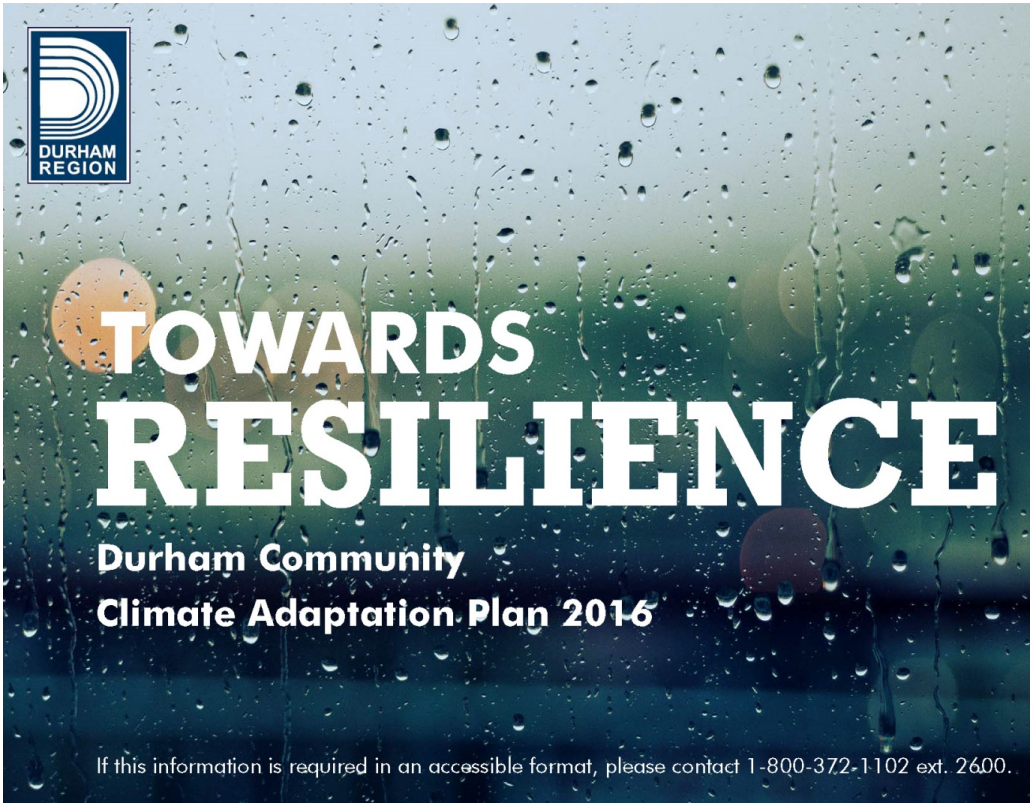
60%

Local governments have direct or indirect control over 60% of Ontario's GHG emissions.





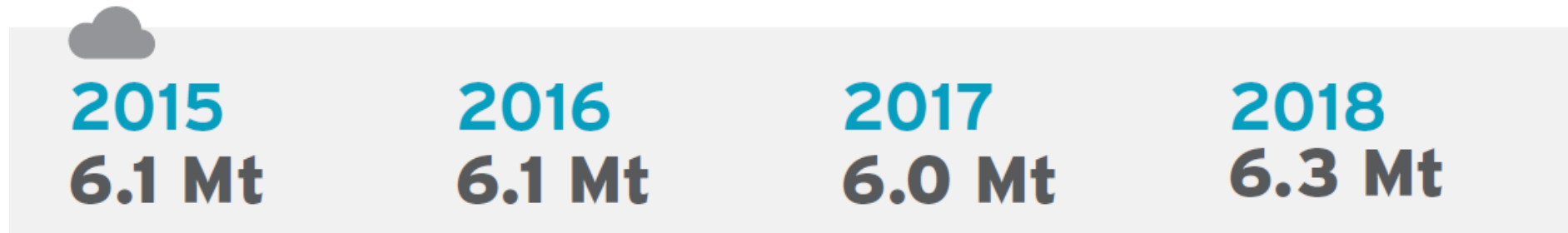
Durham's Climate Action Plans



DURHAM

COMMUNITY
ENERGY
PLAN

Durham's Community Wide GHG Profile





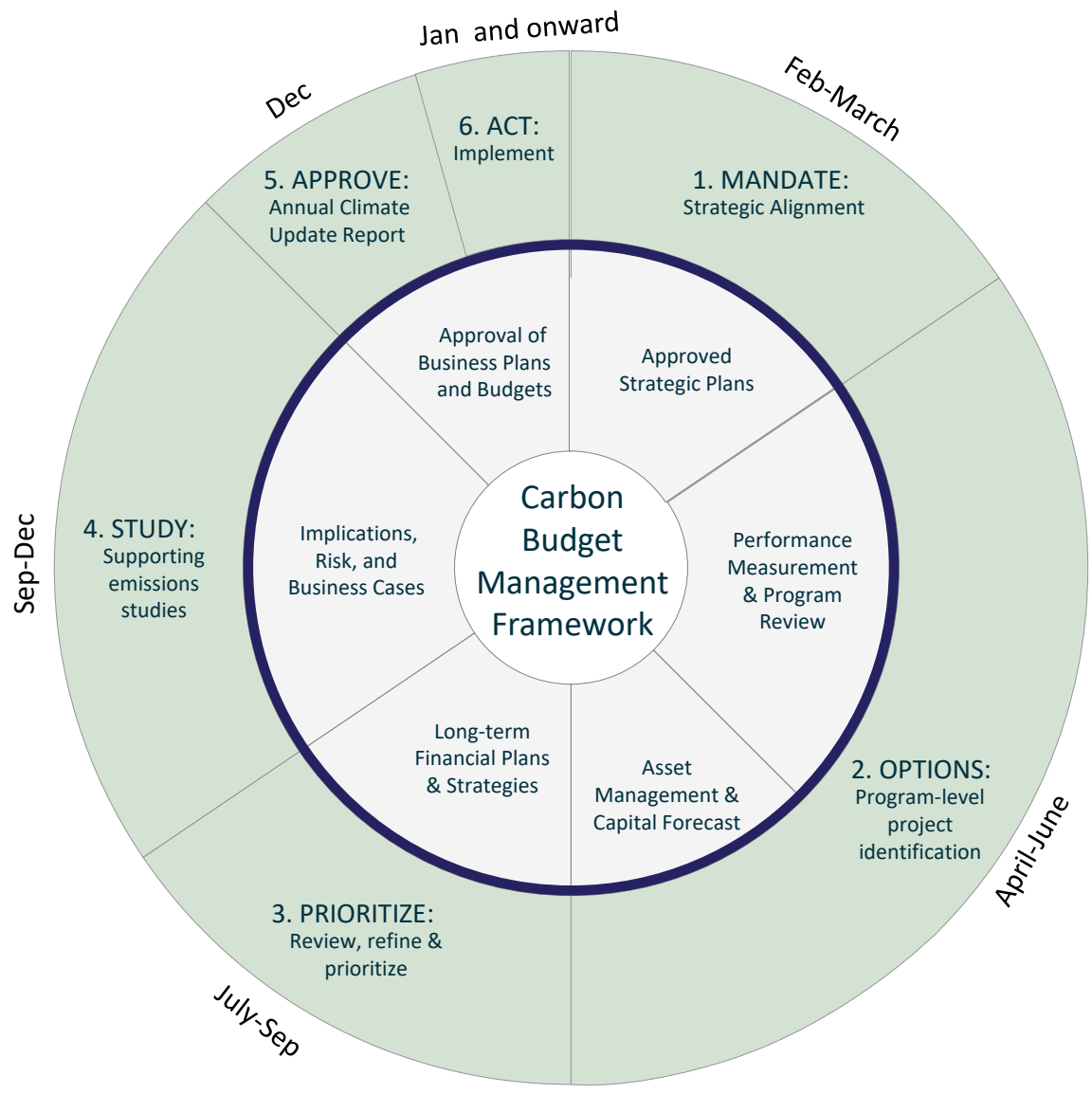
Approved Durham Region Corporate GHG Reduction Targets

- Science-based approach
- 3-4% average reduction per year

Year	Target
2025	-20%
2030	-40%
2045	Net zero



Carbon Budget Management Process



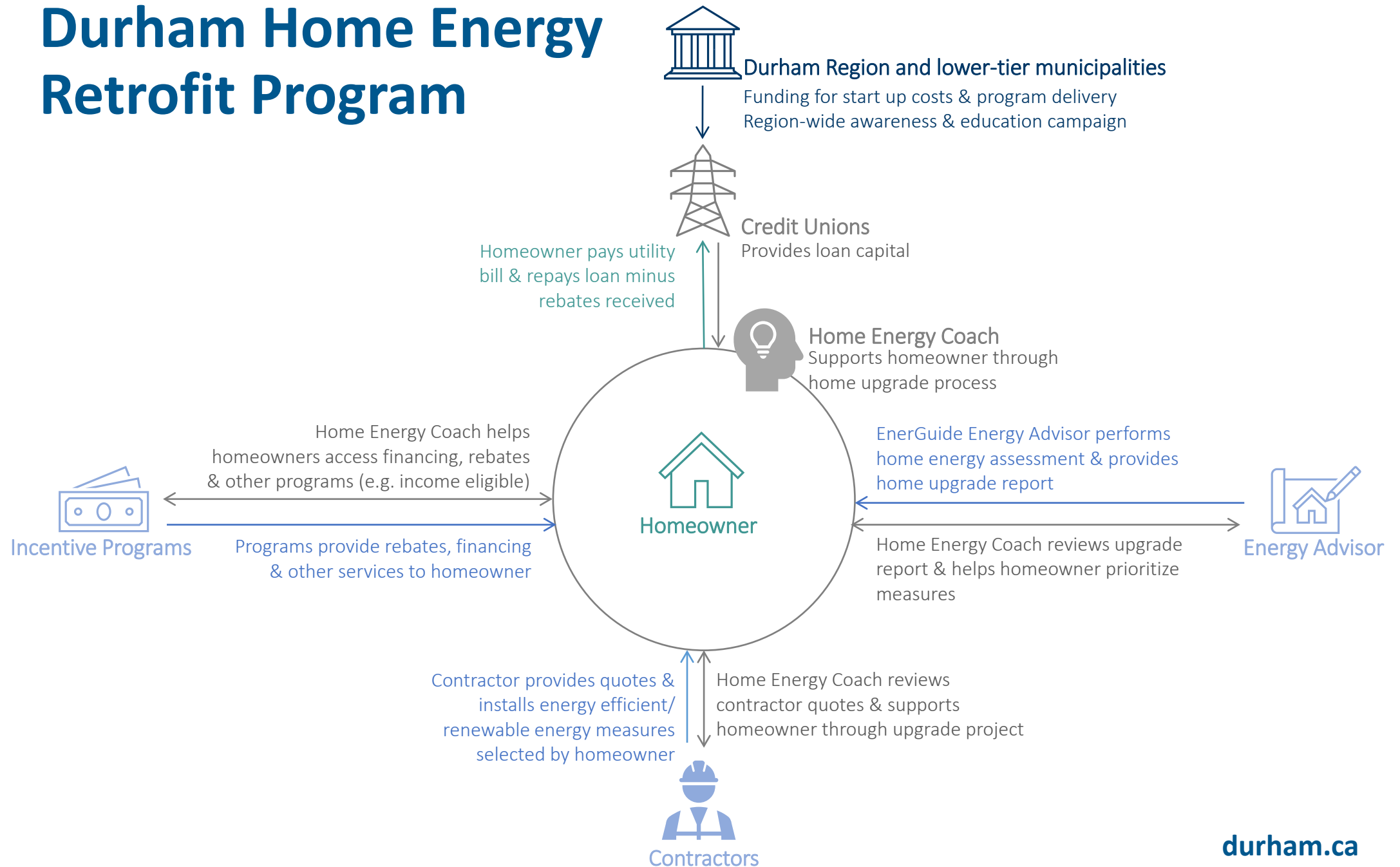


Corporate Climate Action Priorities to 2025

Regional Operating Area	GHG Reduction Initiative(s)	Potential GHG reduction impact by 2025
Solid Waste	Internal utilization of renewable natural gas generation from anaerobic digestion and other Regional processes.	0-7,500 tCO ₂ e
Solid Waste	Landfill biocover pilot.	12,000 tCO ₂ e
Facilities	Deep energy retrofits of existing buildings in corporate portfolio.	1,000-2,000 tCO ₂ e
Fleet – 4 Fleet Groups including Paramedics, Police, Transit, and Works	Pursue battery electric and hybrid electric vehicles for all corporate-owned fleets, where operationally feasible. With an estimated baseline of approximately 28,500 tCO ₂ e in 2019, this target represents a 7% to 14% GHG reduction by 2025.	2,000-4,000 tCO ₂ e
Total		15,000– 25,500 tCO₂e
GHG emissions reduction target		33,900 tCO₂e
% of target		44% to 75%



Durham Home Energy Retrofit Program



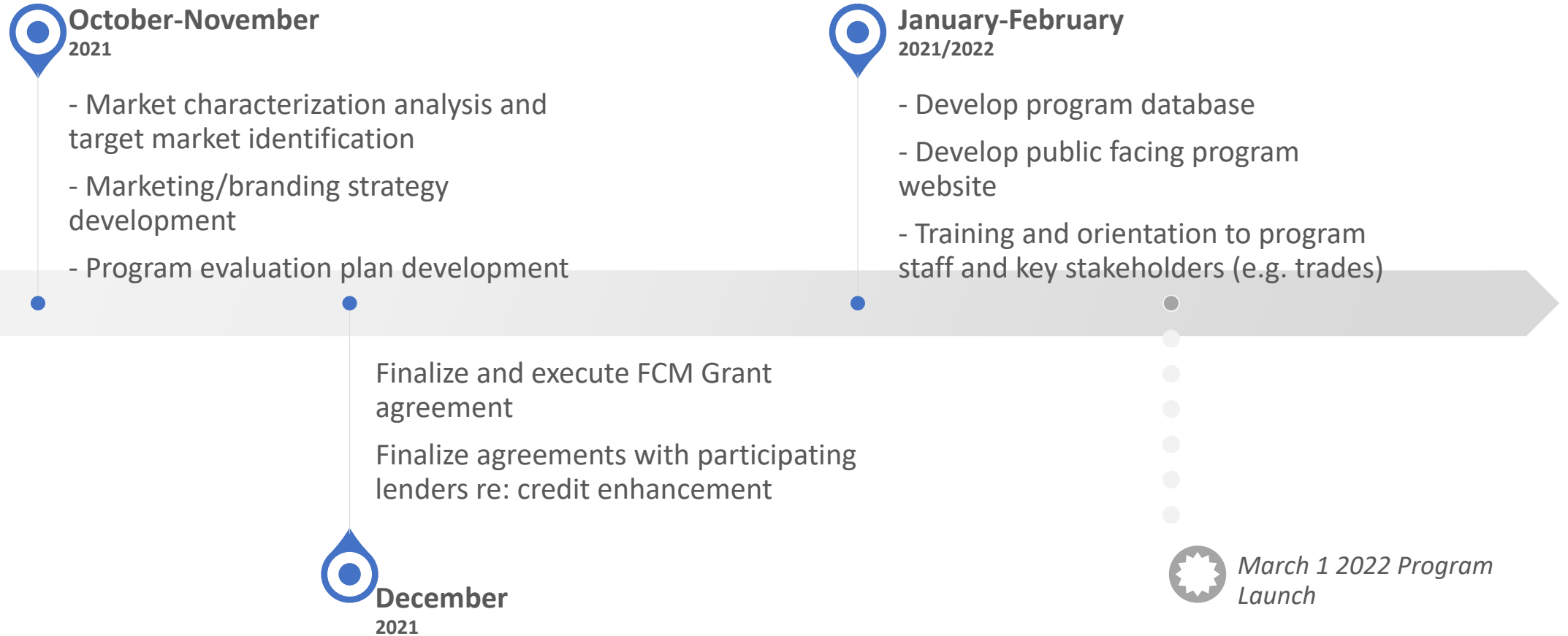


Anticipated Program Outcomes for 2022 to 2026

Program Outcome	Projected program metrics
Estimated program participation	1,066 (completed projects)
Greenhouse gas (GHG) emissions reductions	3,411 (tonnes Carbon Dioxide equivalent)
Energy demand reduction	57,000 (Gigajoules)
Total capital mobilized	19.4 (\$ Millions)
Overall Economic Output	52.9 (\$ Millions)
Job Creation	244 (full-time equivalent jobs)



Durham Home Energy Savings Program - timelines and next steps





E·MISSION



GAS



ELECTRIC

An EV driver in Durham can reduce their vehicle's GHG emissions by 67-95%

By switching from a comparable compact, full-size or mid-size gasoline to an electric car.



GET BEHIND THE WHEEL OF AN EV

[DURHAM.CA/EMISSION](https://durham.ca/EMission)



Green Development – Energy Efficiency Cost Analysis - Project Timeline



Durham Flood-Related Initiatives

Riverine flood risk
assessment and data



Urban flood risk
assessment and data



Shoreline hazard
assessment and data



Synthesis
and Geo-
Targeting

Curated local
flood risk &
resilience
messaging
and products

Input consultation

Present – Winter 2022

Output Engagement & Knowledge Mobilization

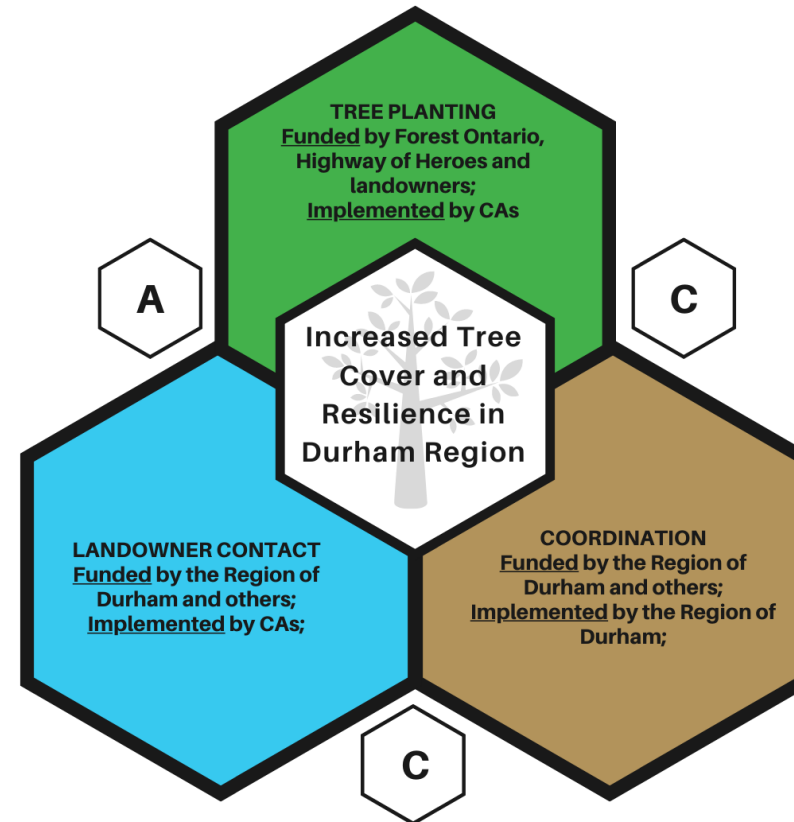
Spring 2022 - Ongoing

Tree Planting Programs



Backyard Tree Planting Program

- A** Coordination of sites, work and partners
- B** Coordination between this program and other Regional initiatives
- C** Using common communication messaging





Questions?

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