

CITY OF BARRIE COMMUNITY ENERGY AND GHG REDUCTION PLAN

General Committee Presentation



Date: March 21, 2022



Objectives of Today's Presentation

- ✓ Solicit support from General Committee for endorsement of the Plan
- ✓ Provide an overview and highlights of the Plan
- ✓ Enhance awareness of climate action opportunities in the community
- ✓ Discuss the implementation framework and next steps

Council Support for Climate & Energy Action

Council motion March 2018

- Council adopted motion to develop a Community Energy and Greenhouse Gas (GHG) Reduction Plan

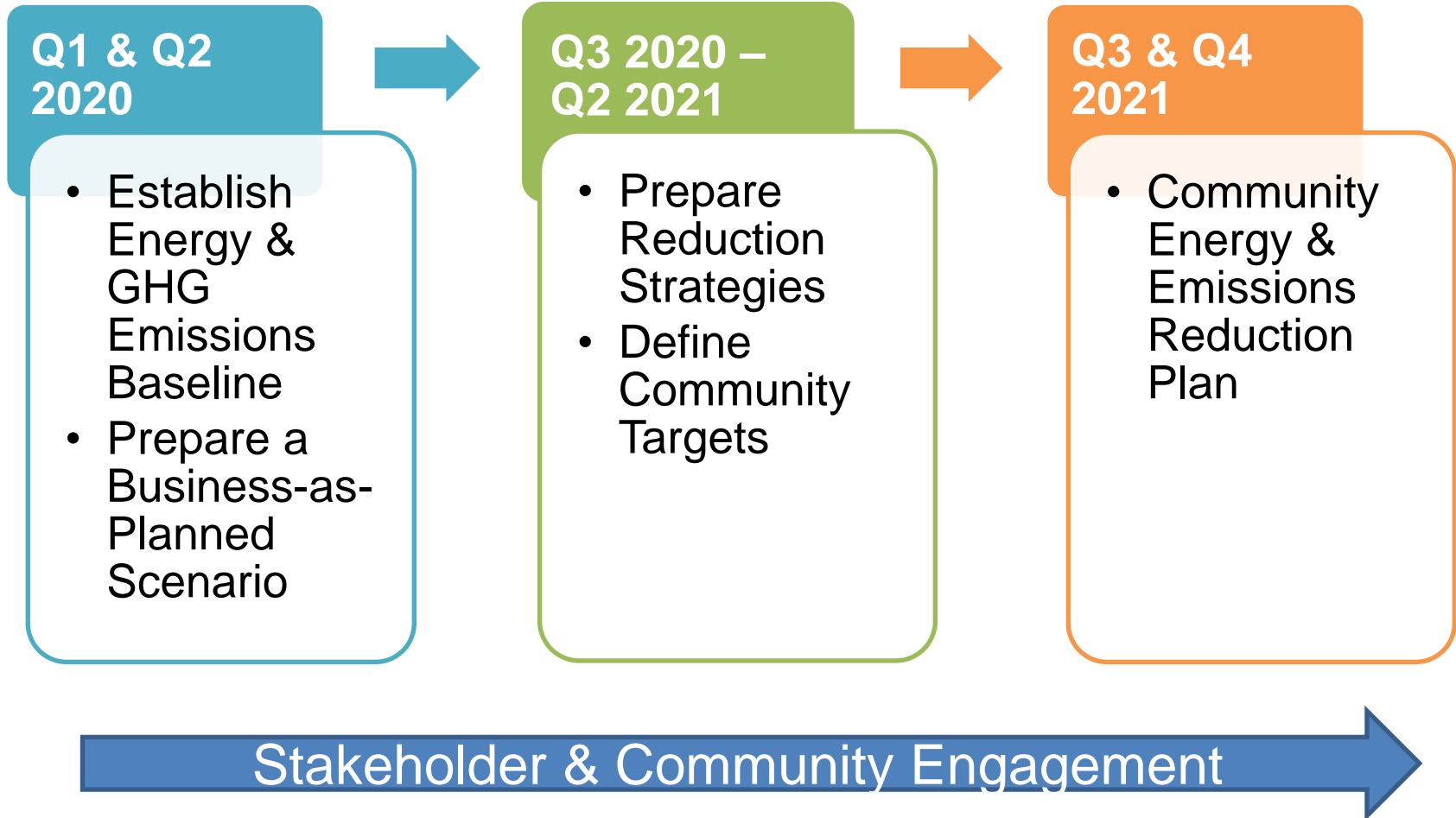
2018 – 2022 Council Strategic Priorities

- “while mitigating and adapting to climate change”
- added to the priority of Building a greener Barrie

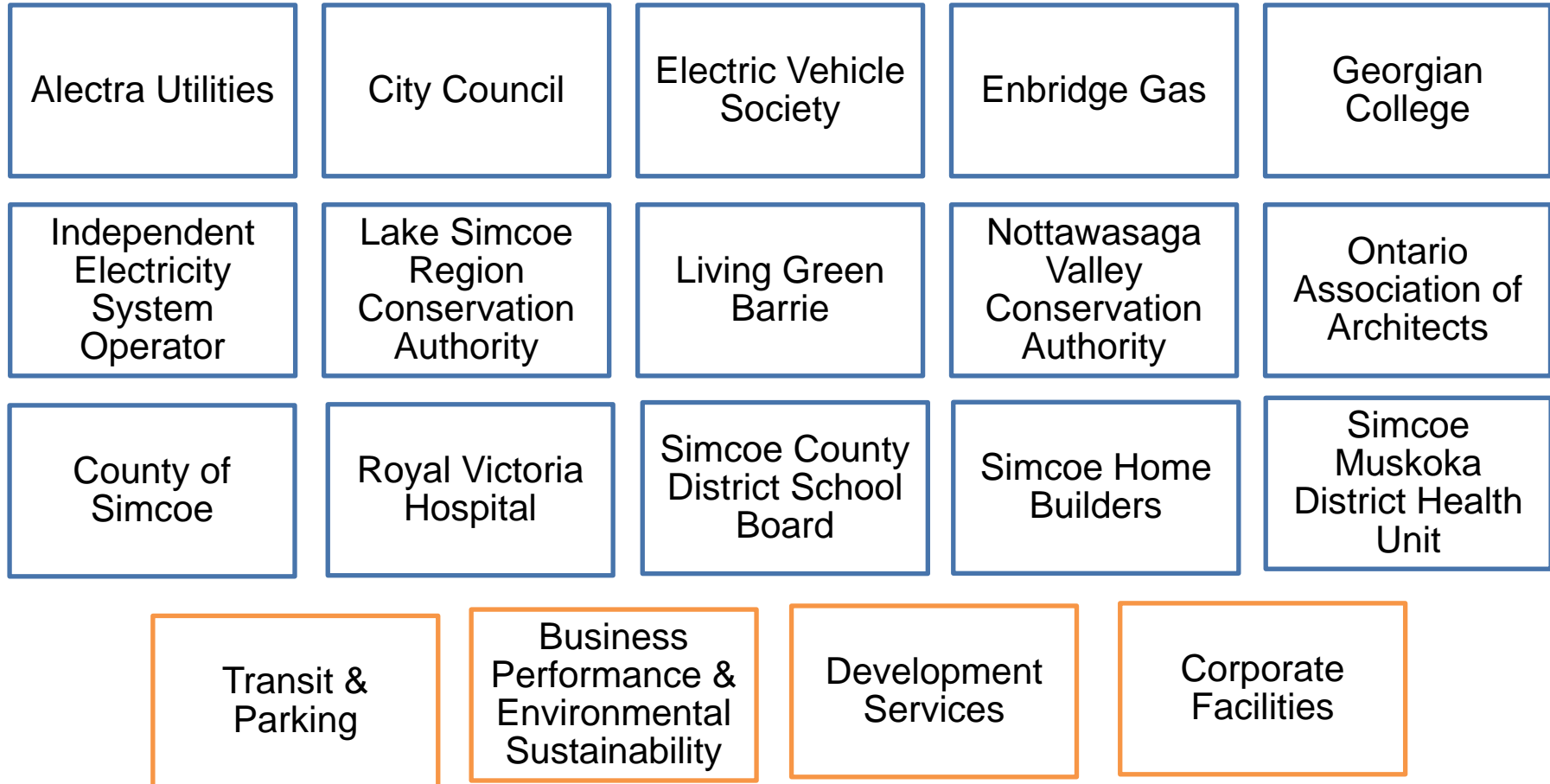
Climate emergency October 2019

- Goal of net-zero carbon emissions by the year 2050

Developing the Plan



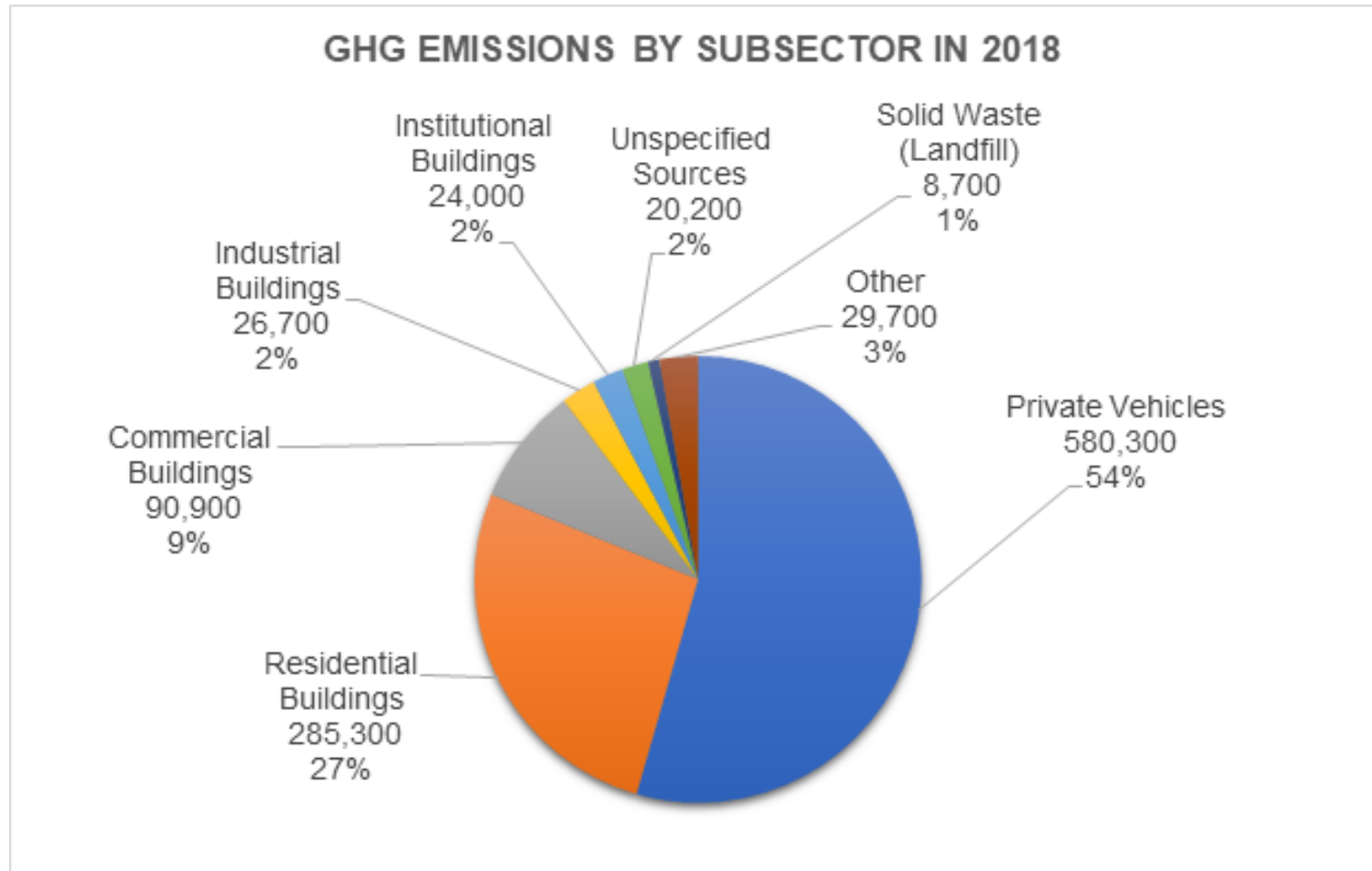
Stakeholder Advisory Group



Stakeholder & Community Engagement Summary

- **Stakeholder Advisory Group Meetings**
 - Seven meetings hosted between August 25, 2020 and December 8, 2021
- **Public Engagement**
 - Three rounds of engagement:
 - 1) Fall 2020 – Public Survey: Seventy-six (76) individuals completed the survey.
 - 2) Spring 2021 – Public information Centre: Ten (10) participants engaged in discussions on draft plan strategies and actions.
 - 3) Winter 2022 – Public Draft Plan Review & Survey: Seventy-nine (79) individuals accessed draft plan and completed accompanying survey.
- **Stakeholder Outreach (Winter 2022)**
 - Engaged and reached out to additional stakeholders (businesses, building sector, local youth) to solicit feedback on draft plan.

Plan Highlights: Emissions Summary



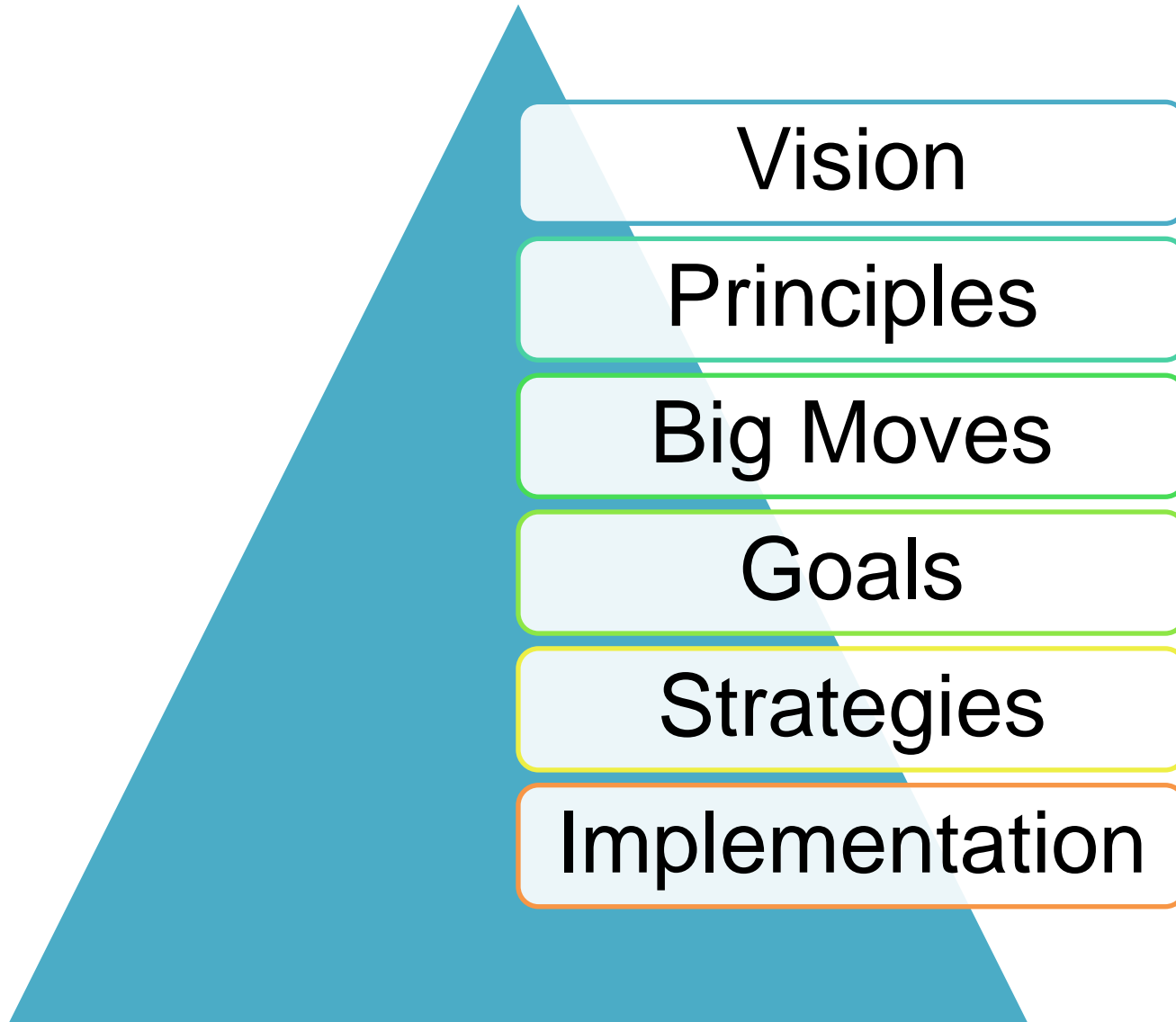
Total GHG Emissions:
~1.07 million tCO₂e

Plan Highlights: Emissions Summary

Key Findings:

- Energy use produced over a million tonnes of carbon dioxide equivalent for the community.
- Annually, nearly \$600 million is spent on energy (the majority leaves the local economy).
- The average person spent \$3,870 on annual energy costs and emits 7 tonnes of emissions.
- Private vehicle transportation use is responsible for 55% of total community emissions.
- The building sector is responsible for 40% of community emissions.
- The BAP forecast indicates emissions will increase by 40% by 2050.
- **Without strong action, the community emissions will significantly exceed federal emission targets in both 2030 and 2050.**

Plan Framework



Vision & Principles

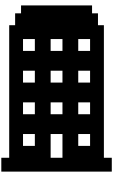
Vision

The City of Barrie is taking an integrated, ambitious and action-oriented approach to climate action, which provides positive environmental, social, economic and health outcomes for all.

Principles

- There are **economic** benefits in pursuing climate action at the local level.
- Recognize and promote the inextricable link between the natural and built environments, climate change and our community's **health and wellbeing**, and foster the health co-benefits of climate action.
- Pursue **innovative** solutions and an **evidence-based** approach to climate action.
- Educate** and inspire residents and business to make positive environmental change, building on the City's leadership.
- Develop strategies that are **equitable** and enhance **quality of life** for all residents.
- Benchmark against **best practices** and looks for continuous improvement.
- Enable positive environmental actions amongst Barrie's residents.
- Advance Barrie's climate and energy goals in **partnership** with residents, organizations and businesses.

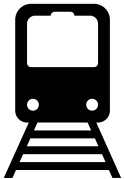
Big Move - Buildings



Goal: Near zero emissions in new and existing building stock

- Deep energy retrofit program
- Green development standard
- Energy management and benchmarking
- District energy
- Rooftop/ground mounted solar
- Larger renewable energy infrastructure projects

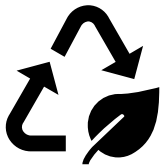
Big Move – Transportation



Goal: Near zero emissions from transportation

- Local transit options
- Increased GO Train use
- HOV lane on Hwy 400
- Adoption of electric vehicles
- Active transportation
- Car sharing programs and networks

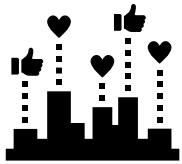
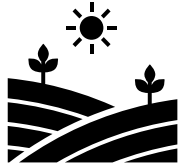
Big Move – Waste



Goal: Waste reduction through a circular economy

- Specialized collection weeks
- Circular economy culture
- Commercial, institutional, and multi-use residential buildings recycling practices and procedures

Big Move – Natural Environment & Land Use

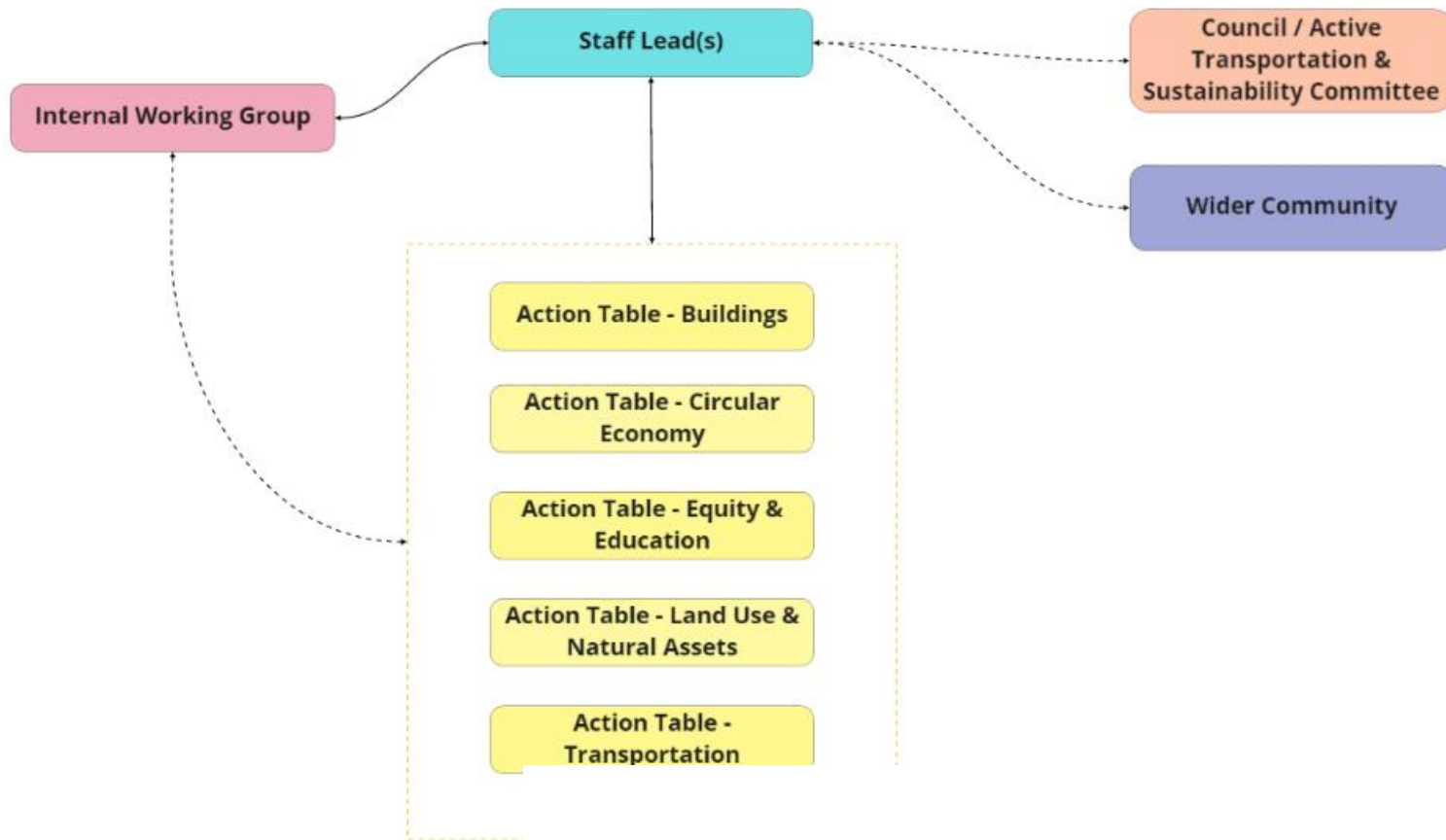


Goal:
Livable neighbourhoods that support energy efficiency, mixed-use, complete communities & protection of the natural environment.

- Higher density, mixed-use developments
- Zero emissions neighbourhood
- Growing and buying locally grown food
- Carbon sequestration through trees, wetlands and other nature-based solutions

Implementation Framework

“City-led and community-supported”



Immediate Actions & Next Steps

Administrative and enabling actions:

- Establishment of Action Tables
- Establishment of Internal Corporate Implementation Working Group
- Development and implementation of a Communications and Engagement program
- Development of a Monitoring and Reporting Protocol
- Investigate the establishment of a carbon budget

Big Move actions (City Led) :

- Initiate the development of a Deep Energy Retrofit Program
- Initiate the development of a Green Development Standard

THANK YOU

Questions?

