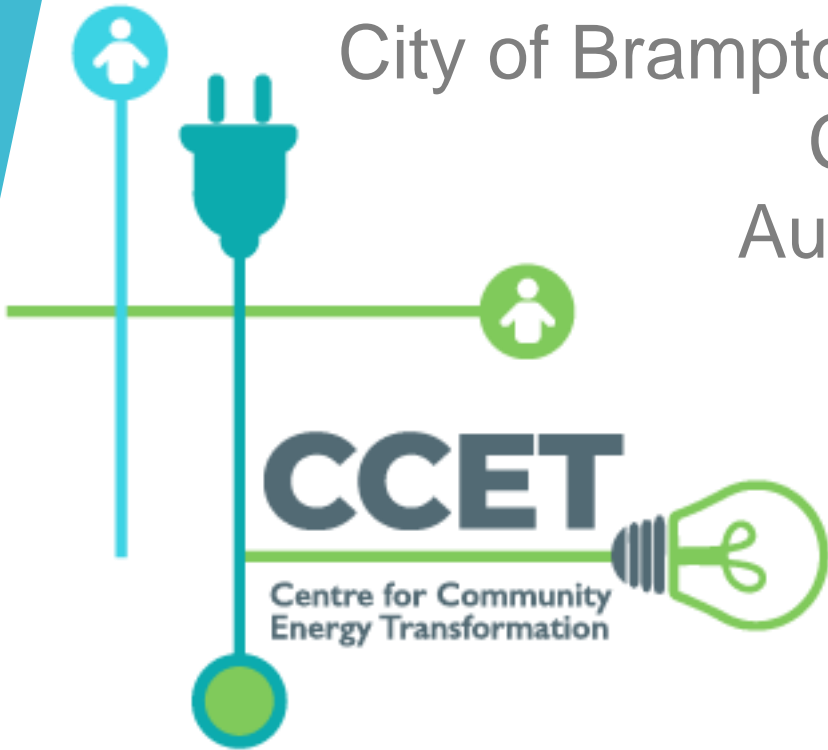


Centre for Community Energy Transformation

City of Brampton Environment Advisory
Committee
August 6, 2024



www.energytransform.ca

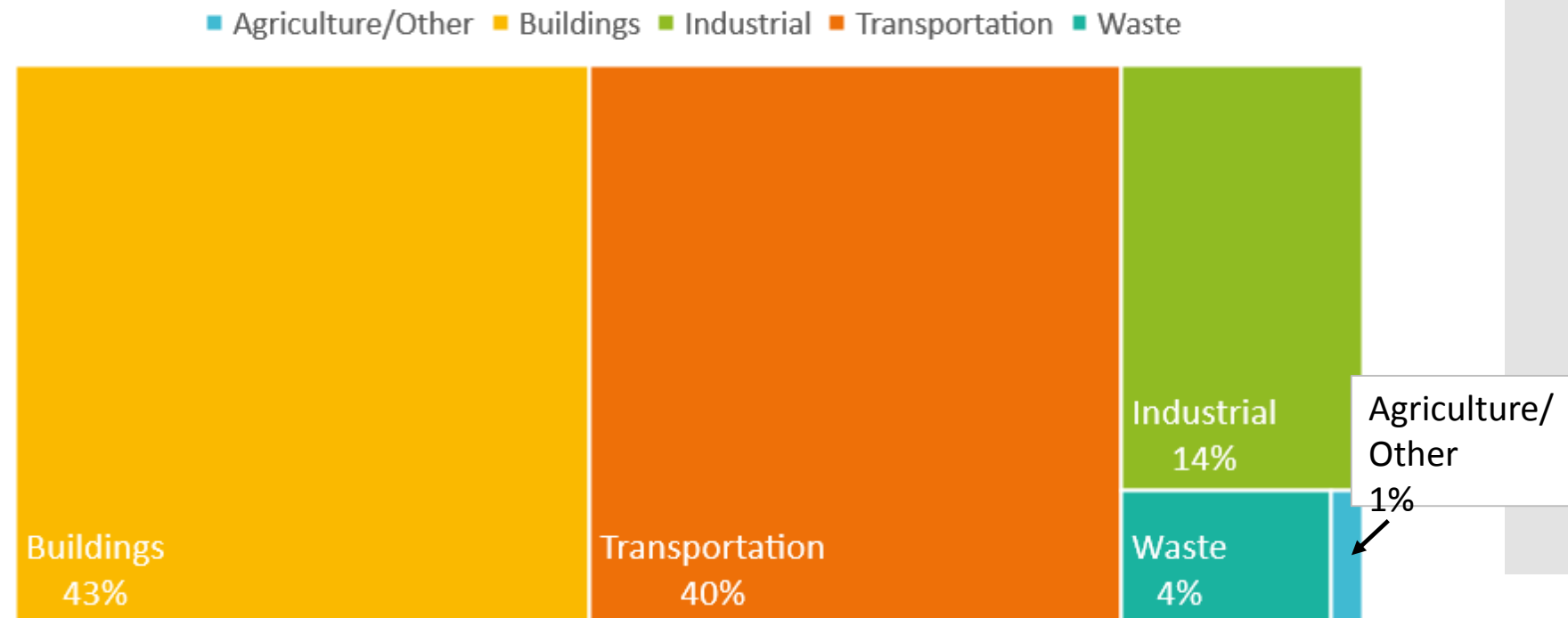
Peel Region 2022 Emissions by Sector

THE NEED

Peel Emissions increased from 2021 to 2022

- Building emissions increased 8.9%
- Per capita emissions increased 8.7%

Peel Region 2022 Emissions by Sector



Vision:
A sustainable
energy future

Mission:
To lead an
inclusive
suburban
energy
transformation

Background

2019/2020 – Priority Action in Brampton's Community Energy & Emissions Reduction Plan to create an arms-length agency to scale up climate action

2019 to 2021 - Community Advisory Task Force for CCET to:

- Become a Regional Centre of Excellence in Energy
- Accelerate the achievement of municipal climate and energy goals
- Be a catalyst for significant, rapid transformation of our community energy systems

Multi-year commitments from municipal partners



CCET Milestones



Clean50
exceptional contributors to the clean economy
contributeurs exceptionnels à l'économie propre
TOP PROJECT



CCET
Advisory
Group



Brampton
Board of
Trade
Event

2021
A Path Forward -
Strategic
Framework



Current focus
as expressed in
Business Plan



Four Priority Areas from Advisory Task Force

Deep Home
Energy
Retrofits

Encourage
District
Energy

ICI
Energy
Efficiency

Communicatio
ns and
Outreach

Transformation
Programs

Home
Energy
Retrofits

District
Energy

ICI Energy
Efficiency¹

Competencies /
Supporting
Functions

Governance

Communications and Branding

Securing Funding

Leadership and Collective Experience

Accelerating
Home Energy
Retrofits

and

Advancing Low
Carbon District
Energy

Focus on Two Program Areas

Home Energy Retrofits

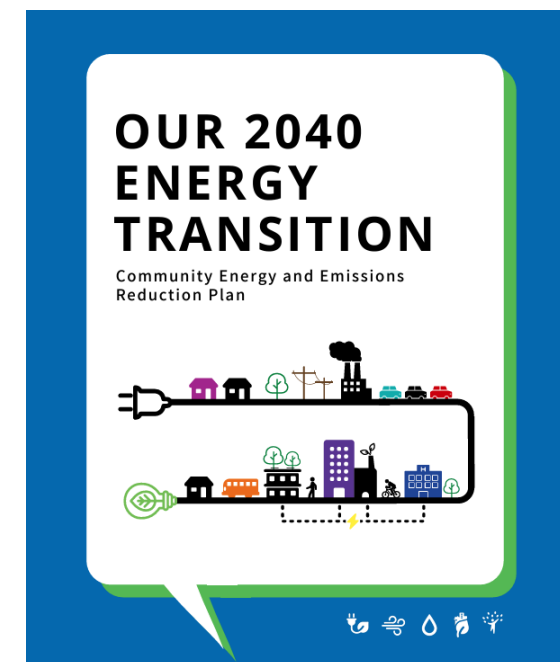
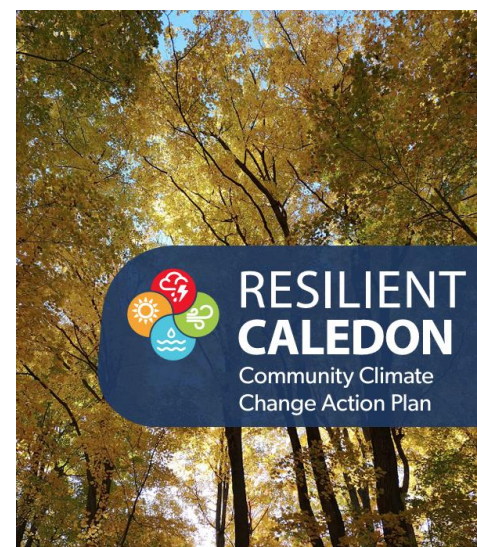
Objectives

- Be a trusted advisor
- Raise awareness
- Address energy burden
- Strategic partnerships
- Launch energy coach
- Launch One-stop Window
- Secure private capital
- Prepare LIC financing offering

Low Carbon District Energy

Objectives

- Host a district energy forum
- Building energy profiles in priority district energy nodes



Home Energy Retrofits Program: Two Main Audiences

Objective: Engage residents with Energy Coaching that provides education and resources for Energy Retrofits

1. Equity-deserving households

- Bridge the gap between the need and available affordability programs
- Turnkey solutions reducing or eliminating upfront cost barriers

2. Standard Income households

- Enabling services
 - Energy coaching
 - One-stop Window
 - Net Zero roadmap
- Increase uptake by developing a range of financing options, including Local Improvement Charges (LIC)



Free Energy Coaching Service

Brampton,
Caledon,
Mississauga, &
the region of
Peel residents

One- Stop Window for Energy Savings & Coaching

1. Participant signs up on the [Contact Form](#)
2. CCET reaches out to new participant
3. Participant sets up a meeting time with the coach
4. Coaching session is a one-hour call tailored to the home and the homeowner's questions. Simple, DIY steps are recommended first
5. Coach provides resources and information to assist in the next steps, finance options, rebates, incentives
6. Coach encourages an energy audit performed by a certified Energy Advisor
7. Homeowner performs the recommended retrofits



Financing Options for Energy Retrofits

FCM- Federation of
Canadian
Municipalities

Community
Efficiency
Financing
(CEF)
Capital
Program

Local Improvement Charges (LIC's) are one of the few legislative tools available to municipalities to support GHG reduction actions

- LICs are often the preferred financing option for energy retrofit program design
- LICs in place through CEF funds in:
 - Toronto, Kingston, Ottawa, Peterborough, Guelph
- The programs can operate at minimal cost to the municipalities because they utilize existing systems
- Application for CEF funding requires financing options be determined, (i.e. grants, loans, etc.)
- CCET positioned to apply for CEF funds (loan and grant) and administer the LIC financing with municipal partners
 - Loan flow through to households
 - Grant can support program administration



3% annually

= Needed rate
of energy
retrofits

**0.5%
annually**

= Current rate
of energy
retrofits

LIC Financing

Local Improvement Charge (LIC) financing for home energy retrofits (also called Property Assessed Clean Energy or PACE) provides capital to accelerate home energy retrofits. A LIC program is where:

- Homeowners **access long-term financing** with a fixed interest rate
- Financing is secured by a **special assessment on the property** (vs. owner)
- The loan is repaid through the **municipal property tax bill**
- **Energy savings** can help offset monthly financing costs.

www.energytransform.ca



Application to FCM's Community Efficiency Financing

PROPOSED PROCESS & TIMELINE

Finance Team Workshops

- ⑩ Meet with Municipalities
- ⑩ Identify Council Approval Dates (as required)
- ⑩ Name Team Members
- ⑩ 'Pro Forma' to seek private capital

Determine LIC Structure and Lead Applicant

- ⑩ Develop Draft Narrative for Pre-Application
- ⑩ Develop Draft Budget
- ⑩ Submit to partners for review

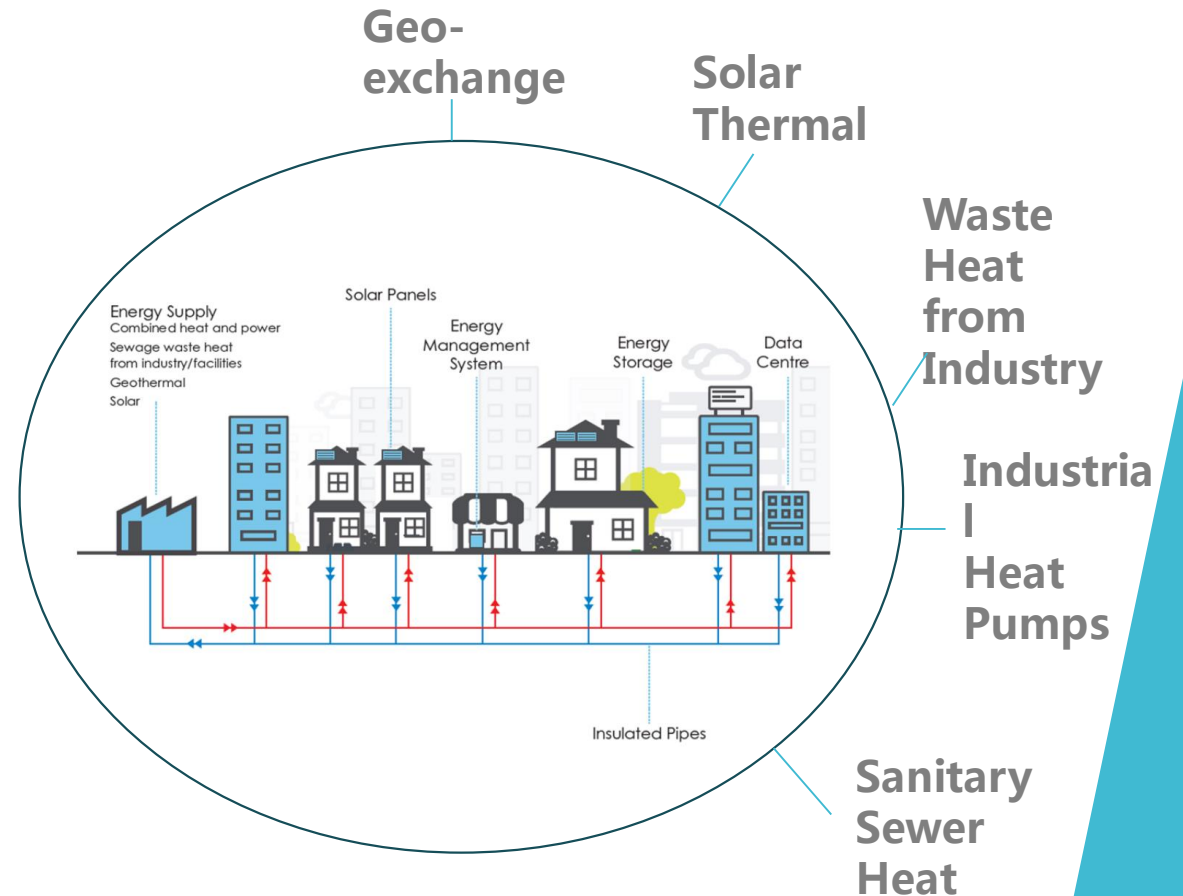
Draft Pre- Application Submitted

- ⑩ Reviewed by partners
- ⑩ Submit Pre-Application by Sep/Oct 2024

Low Carbon District Energy

Benefits of Low Carbon District Energy

- Reduces overall energy use
- Assists with electricity load in energy transition away from fossil fuels
- Can use multiple energy sources
- Resiliency
- Reduced cost of mechanical equipment replacement for building owners



Low Carbon District Energy

CCET's Role

- Education and outreach
- Advance business cases and feasibility studies
- Convene stakeholders

Save the Date!

November 5, 2024

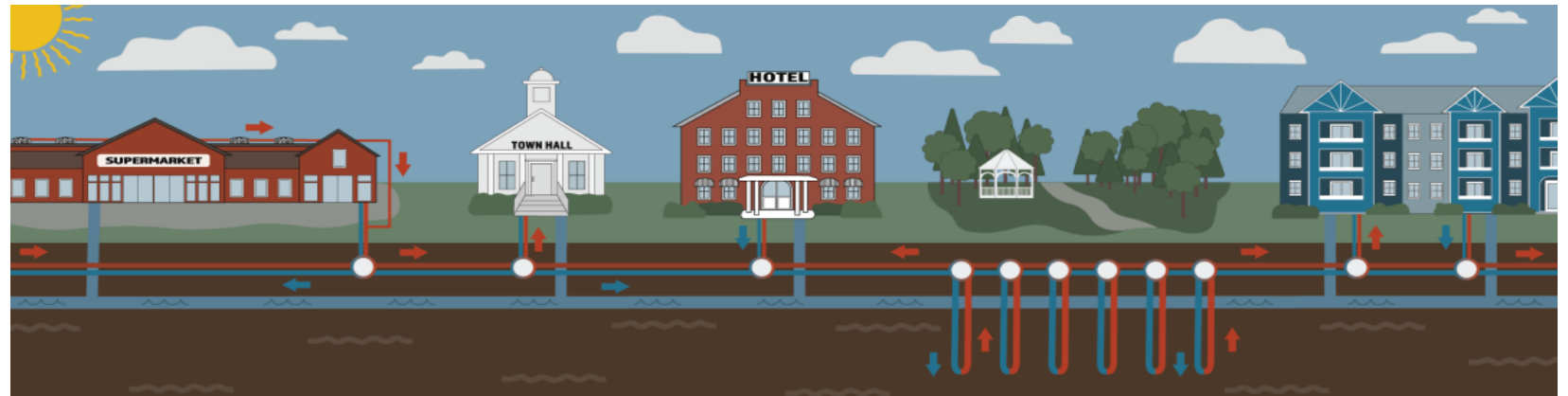
Low Carbon District Energy
Workshop

Hosted by CCET, Danish Consulate



**CONSULATE GENERAL
OF DENMARK**
Toronto

Peel Region
working with you



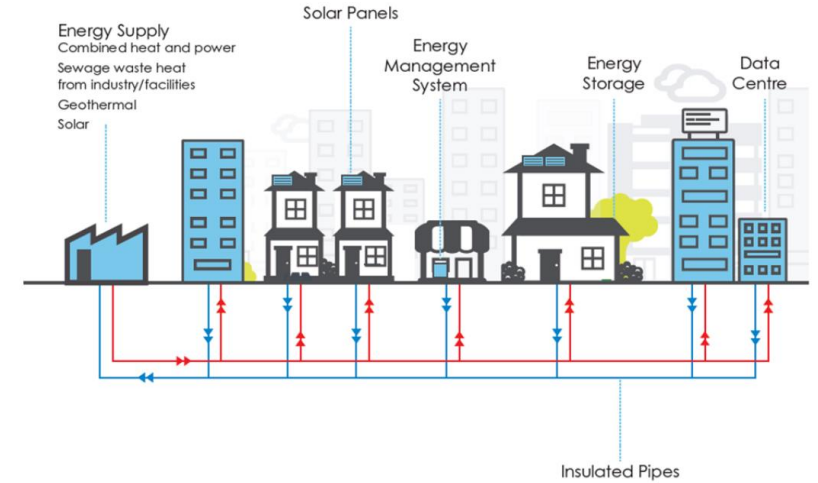
District Energy Priorities

Emerging Priority Areas

- Heritage Heights, Brampton
- Downtown Brampton
- Downtown Mississauga

Major Redevelopment Areas

- Bramalea City Centre, Brampton
- Shopper's World, Brampton (20 ha redevelopment and proposed 5,000 residential units)
- Square One, Mississauga (53 ha redevelopment and proposed 18,000 residential units)



Requests from EAC

Marketing and Communications

- Spread the word about the energy coach (free home energy consultations on first come first serve basis)
- Sign up for CCET's [newsletter](#)
- Follow CCET on social media
- Share CCET posts with your network



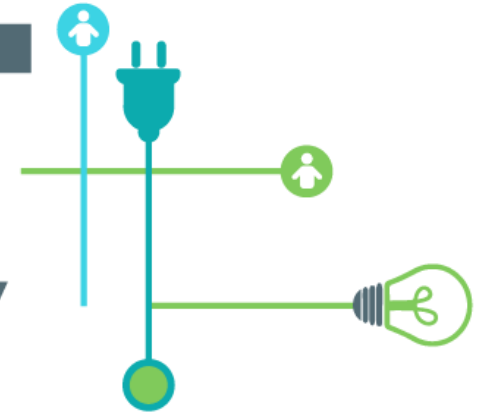
CCET Programs

- Consider attending November 5th Low Carbon District Energy workshop
- Sign up on CCET's One-Stop Window for your free energy coaching.



Questions?

CCET
Centre for Community
Energy Transformation



THANK YOU!

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Laurie.Dickson@energytransform.ca

www.energytransform.ca

