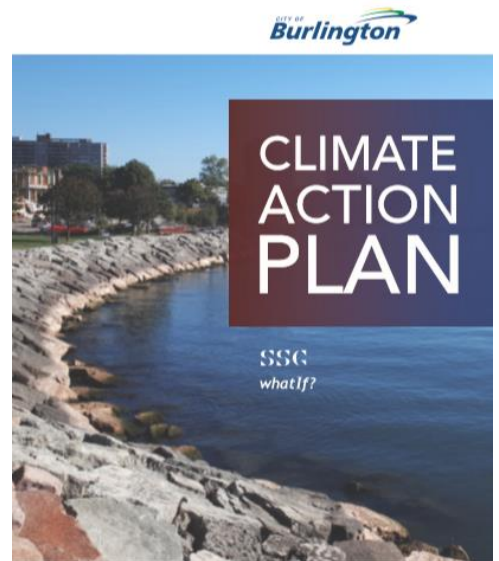


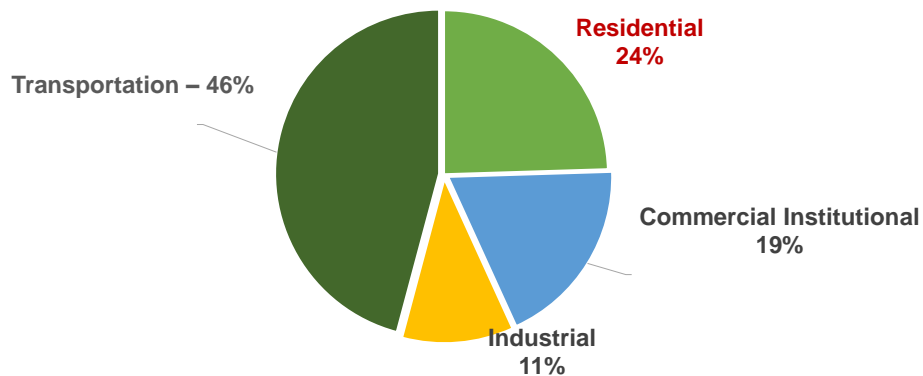
Options for a Deep Energy Retrofit Program in Burlington

EICS Committee
July 6, 2020



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Community GHG Emissions (2018)



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What is a Deep Energy Retrofit?

- A systems approach to reduce carbon emissions from existing buildings
 - Adding insulation
 - Sealing air leaks
 - Upgrading mechanical systems
 - Replacing windows and/or doors
 - Water efficiency upgrades
 - Thermal controls
 - Renewable energy



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Homeowner Financing Options

- Personal savings
- Personal line of credit
- Mortgage options
- Municipal 'Local Improvement Charge' financing program
 - Special temporary charge to property tax bill to pay for improvements
 - Toronto – HELP & Hi-RIS programs



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Home Energy Retrofit Program Components

- Marketing plan – community engagement
- Application process
- Home energy audits
- LIC By-law - scope of measures allowed in program
- Contractor engagement
- Financing options
- Incentives
- Homeowner support – concierge or advisor services



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Challenges

- It's not easy
- Homeowners can be intimidated
- Residential sector is diverse – smaller economies of scale
- Mortgage lender approval
- Capital funding required for LIC program
- Loan loss reserve fund
- Market expectations – rebates & incentives vs financing
- Robust marketing required
- Coordination and engagement of stakeholders and trades



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Benefits

- Stimulate local economy & job creation
- Reduced GHG emissions – working towards community targets
- Improved building comfort – healthier buildings
- Increased property value
- Improved building resilience
- Positive community reputation



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Role of the Homeowner

- Deciding to complete a home energy efficiency retrofit
- Researching options – energy efficiency measures
- Considering financing options
- Not getting overwhelmed – keeping going
- Home energy audit & defining scope/budget
- Coordinating trades/contractors – quotes, work & bills
- Enjoying results



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Municipal Role

- Homeowner engagement & education
- Engagement of trades/contractors
- Partnerships – community & provincial stakeholders
- Leadership – demonstration
- Financing program – Local Improvement Charges



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Program Options

1) **City Run Program**

- Require a business plan/feasibility study
- FCM \$300 million community efficiency financing fund

2) **3rd Party Municipal Consortium**

- Clean Air Partnership, IESO, AMO & HRAI (support from City of Toronto)
- Flexible & adaptable
- One window service delivery
- Marketing & promotional opportunities
- Municipal support



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Home Energy Efficiency Financing Program – Next Steps

- Join 3rd party consortium led by Clean Air Partnership
- Internal engagement – finance & legal staff to assess capital funding options; homeowner agreements
- Report back with LIC by-law & eligible measures
- Develop financing structure/process
- FCM funding application – early 2021



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Community Engagement – Next Steps

- Update city's Environment webpage
- Bay Area Climate Change Council & CCCM – accelerator program
- Engagement of local trades/contractors (support from BACCC & CAP)
- Climate Action Plan community stakeholder engagement
- Promote related measures – renewable energy, resiliency, EVs, e-bikes & e-equipment
- Demonstration centre options



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Report Back Q4 2020

- Details on Home Energy Efficiency Retrofit Program
- Funding options for program
- LIC By-law
- Recommended program measures
- Resources required
- Update on community engagement



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TakeActionBurlington.ca
Getinvolvedburlington.ca



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Climate Action Plan Community Stakeholders

Burlington **hydro** inc.

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