

Clean Air Partnership

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A Zero Emissions Buildings Exchange for the GTHA

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Zero Emissions Buildings Exchange in the GTHA

- What is required of buildings?
- What is a ZEB exchange?
- How can an exchange support local government?
- Feedback & questions





What is Required?

- IPCC Assessment Reports & Pathways to 1.5°C global warming
- Paris Accord
- UN Framework Guidelines
- Pan-Canadian Framework; Build Smart.
 Clean BC, Toronto Green Standard,
 Vancouver Building Bylaw
- All based on climate science





The Four Imperatives

- Maximize operating energy efficiency
- Meet operating energy requirements from renewable sources
- Minimize embodied carbon
- Achieve the first three things as rapidly as possible



University of Toronto student residence, Under construction



What is a ZEB Exchange?

- Capacity development
- Industry engagement
- Technical support
- Barrier removal
- Consumer outreach



Concept Development Process

Funded by TAF

Input & guidance from key partners:

- Passive House Canada
- City of Toronto
- Toronto Community Housing
- Waterfront Toronto
- Clean Air Partnership
- CaGBC, Toronto Chapter
- Dunsky Energy

Stakeholder engagement:

 Over 30 companies, industry associations, affordably housing agencies, educational institutions, local governments, Hydro One, TRCA-BRE Innovation Park



North Park Passive House 6-unit condominium Victoria, BC



Challenges an Exchange should address

- Financial understanding, managing & calculating costs
- Procurement
- Design, construction & operational skills
- Regulatory alignment & support
- Public/tenant/owner engagement







State of Readiness

- Housing agencies
- Local government
- Waterfront Toronto
- Educational institutions
- Industry Associations
- Manufacturers
- Thousands of workforce, major firms

What is slowing transformation?

LIMITED MARKET



Blossom Park, affordable housing Oxford County

Public Sector Leadership?



Support of local government?







Ken Sobel Tower, Hamilton, ON

Feedback & Questions





