



Greater Toronto
Every Building Greener



Net Zero Housing Workshop

What is Net Zero and How Do We Get There?

Tuesday November 8, 2016

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Clean Air Partnership (CAP)

- **CAP** is a charitable environmental organization and we serve as the secretariat for the Clean Air Council.
- **CAP's Goal** is to help municipalities become more sustainable, resilient, and vibrant communities where resources are used efficiently, the air is clean to breathe and greenhouse gas emissions are minimized.

Clean Air Council

- Initiated in 2000 after the release of Toronto Public Health's Burden of Illness (1,700 death in Toronto alone due to air pollution); and Ontario Medical Association's Illness Cost of Air Pollution (5,800 deaths in Ontario due to air pollution, 500 million in health care costs).
- Climate change is the most pressing environmental, social and economic problem facing the planet.
- Synergies between air pollution and climate change solutions enable communities to address multiple problems and achieve multiple co-benefits.
- Communities that are more efficient, sustainable and resilient will enable us to tackle the air pollution and climate change challenge and foster the Greater Toronto Area's competitiveness and livability.

Benefits of Collaboration

- Saves staff time during the design, planning and implementation stages.
- “Who else is doing that, what did it cost, what did it achieve”?
- Each jurisdiction allocating staff resources to research that individually is prohibitive and wasteful.
- Sharing experiences and lessons learned reduces the need to recreate the wheel and mistakes .
- Allows for the ability to do more with less.

Priority Clean Air Council Declaration Actions

- Corporate & Community Green Development Standards
- Corporate Energy Conservation Plans
- Active Transportation Plan Development & Implementation
- Community Energy Inventories
- Community Greenhouse Gas Reduction Targets
- Community Energy Plans
- Green Energy Production
- Community Action Plans Development & Implementation
- Green Procurement
- Urban Forestry
- Community Gardening/Urban Agriculture Plans & Policies
- Local Food Procurement Policies
- Climate Adaptation Plans
- Green Fleets Plans
- Community Climate/Environment Action Funds

Net Zero What?

- Net Zero Energy ?
- Net Zero Energy Ready?
- Net Zero Carbon?
- Net Zero Buildings?
- Net Zero Communities?

Possible Definition of a Net Zero Energy Community: *A net zero-energy community (ZEC) is one that has greatly reduced energy needs through efficiency gains such that the balance of energy for vehicles, thermal, and electrical energy within the community is met by renewable energy.*

Possible Definition of a Net Zero Energy Building: *A NZE building is one that is designed, modelled, constructed and operated by producing as much energy as it consumes on an annual basis.*