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## **Regional Municipality of Durham**

### **MINUTES**

#### **DURHAM REGION ROUNDTABLE ON CLIMATE CHANGE**

**September 14, 2018**

A regular meeting of the Durham Region Roundtable on Climate Change was held on Friday, September 14, 2018 in Boardroom LL-C, Regional Municipality of Durham Headquarters, 605 Rossland Road East, Whitby at 1:00 PM.

Present: Regional Chair O'Connor attended the meeting at 1:10 PM  
G.H. Cubitt, Chief Administrative Officer  
R. Gauder, Citizen Member, Chair  
Councillor Ashe, Finance & Administration Committee  
Councillor Ballinger, Works Committee  
C. Desbiens, Citizen Member  
Councillor Glead, Health and Social Services Committee  
D. Hoornweg, Citizen Member  
J. Kinniburgh, Citizen Member  
H. Manns, Citizen Member  
C. Mee, Citizen Member  
K. Shadwick, Citizen Member

Absent: T. Hall, Citizen Member  
Councillor Mitchell, Planning & Economic Development Committee  
B. Neil, Citizen Member  
R. Plaza, Citizen Member  
J. Solly, Citizen Member  
M. Vroegh, Citizen Member, Vice-Chair  
Z. Vonkalckreuth, Citizen Member

#### **Staff**

Present: B. Bridgeman, Commissioner of Planning and Economic Development  
A. Gibson, Director of Corporate Policy and Strategic Initiatives  
D. Hoge, Program Coordinator, Climate Change  
B. Kelly, Manager of Sustainability, Office of the CAO  
S. Penak, Committee Clerk, Corporate Services – Legislative Services  
D. San Juan, Environmental Health Specialist, Health Department

#### **1. Adoption of Minutes**

Moved by G. Cubitt, Seconded by Councillor Ballinger,  
That the minutes of the regular Durham Region Roundtable on  
Climate Change meeting held on June 8, 2018, be adopted.

**CARRIED**

## 2. **Declarations of Interest**

There were no declarations of interest.

## 3. **Energy Efficiency Potential in New Communities in Durham**

A) Celine Desbiens, UOIT student and DRRCC Member and David Wotton, UOIT student, re: Energy Efficiency Potential in New Communities in Durham

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C. Desbiens and D. Wotton provided a presentation titled: “Energy Efficiency Potential in New Communities in Durham”. A copy of the presentation was provided to the Committee prior to the meeting.

Highlights from the presentation included:

- Our Process – 5 Steps
- House Emissions CO<sub>2e</sub>
- Approach to Reduce CO<sub>2e</sub>
  - Site Planning
  - Design a Dumb House then make it Smart
  - Build the House as a System
- Application of Passive Design
- Application of Passive Design and Passive Materials
- DC Microgrid
- Tree Type and Placement
- Building Heating and Cooling
- Transportation
- Final Design Concept
- Final Reductions for Clarington
- No More Excuses

C. Desbiens and D. Wotton reviewed their five-step process to reduce CO<sub>2e</sub> emissions in two real subdivisions. One subdivision in the City of Oshawa and one subdivision in the Municipality of Clarington were chosen.

D. Wotton informed the Committee that natural gas is the major contributor of CO<sub>2e</sub> and accounts for about 64% of total house emissions. He explained the concept of a “dumb house” which means when everything in the house fails, it can still maintain the people comfortably inside. He provided examples of ways to reduce house emissions such as using passive designs (shape and orientation) and passive materials (envelope insulation in the walls and windows). He noted that south orientation of houses can decrease annual space heating by 46%.

C. Desbiens advised the Committee that tree placement and type, without changing the number of trees, can have a significant impact on energy savings and air pollution removed in the community. She also advised that they looked at active transportation such as eliminating short trips, reducing the number of package deliveries into the area and eliminating or reducing driveway space. C. Desbiens concluded that the final reductions for Clarington was 69,147 tonnes of CO<sub>2</sub> with Oshawa having a similar figure. These figures amount to a reduction in GHG emissions of about 80% below current practices.

C. Desbiens and D. Wotton responded to questions of the Committee regarding how realistic eliminating driveways would be; the impact of these measures on capital costs and if there were any discussions regarding operating costs and reductions; how does the prototypical home compare to a net zero energy home; and re-orientation of houses.

#### **4. Update and Next Steps on Durham Community Energy Plan**

A) Brian Kelly, Manager of Sustainability, Region of Durham, re: Update and Next Steps on Durham Community Energy Plan

B. Kelly provided a presentation titled: "Update and Next Steps on Durham Community Energy Plan".

B. Kelly advised that the final product of the Durham Community Energy Plan has been received from the consultant and that the next phase is stakeholder feedback, followed by council approval. He also advised that the steering committee met September 13, 2018 regarding next steps. B. Kelly provided a handout of the top ten features of the Low Carbon Pathway to the Committee as identified in the Draft Durham Community Energy Plan.

B. Kelly advised that the next steps would be to simplify the Durham Community Energy Plan; present it to the DRRCC committee for approval in January 2019; and then present to Regional Council in March 2019 for "approval in principle". A timing problem with regard to the first scheduled meeting of DRRCC being in February was noted by the Chair.

B. Kelly noted that if any Committee members had any comments or questions they could email him directly.

#### **5. Update on the New House Resilience Standard**

A) Brian Kelly, Manager of Sustainability, Region of Durham, re: Update on the New House Resilience Standard

B. Kelly provided an update on the New House Resilience Standard. He informed the Committee that tentatively October 10/11, 2018 have been scheduled to receive feedback from BILD on the 42 measures in the Draft

Durham Region Resilience Standard for New Homes. Feedback from Durham Region Home Builders' Association is also being developed but no firm date has been set to meet with DRHBA. He advised that he will report back at future meetings with more information.

**6. Changes to DRRCC Terms of Reference**

A copy of Report #2018-COW-160: Proposed Revisions to the Durham Region Roundtable on Climate Change (DRRCC) Terms of Reference of the Chief Administrative Officer was received as Attachment #4 to the agenda.

A. Gibson highlighted the changes made to the DRRCC Terms of Reference including the change to a bi-monthly meeting schedule to ensure strong and substantive agendas for the Committee and including specific reference to the Community Climate Adaptation Plan and Durham Community Energy Plan.

**7. Other Business**

A) Hello Tomorrow: Durham Smart Cities Forum

B. Kelly reminded the Committee of the Hello Tomorrow: Durham Smart Cities Forum taking place September 29, 2018 at the University of Ontario Institute of Technology (UOIT) from 8:30 AM to 3:30 PM. There will be a post-event reception at the Durham College Artificial Intelligence (AI) Hub.

B) UOIT – Funding for Monitoring Total Energy Flow

D. Hoornweg advised the Committee that UOIT received funding from their own budget and by the end of April 2019 plan to have real time monitoring of total energy flows in the City of Oshawa and ideally in Durham Region. This has the potential of being the first in the world where how much energy is currently being used and the total amount of green house gas emissions can be seen online.

**8. Date of Next Meeting**

Discussion ensued regarding the scheduled October and November DRRCC meetings.

The next regular meeting of the Durham Region Roundtable on Climate Change will be held on Friday, October 12, 2018 starting at 1:00 PM in Room LL-C, Regional Headquarters Building, 605 Rossland Road East, Whitby.

[Subsequent to the meeting, the October 12, 2018 and November 9, 2018 DRRCC meetings were cancelled. If required, a special meeting will be called by the Chair prior to the October 22, 2018 Municipal Elections. The next regularly scheduled meeting will be February 2019.]

**9. Adjourment**

Moved by G. Cubitt, Seconded by Councillor Ashe,  
That the meeting be adjourned.

CARRIED

The meeting adjourned at 2:00 PM.

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R. Gauder, Chair, Durham Region  
Roundtable on Climate Change

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S. Penak, Committee Clerk