

Milestone 2: Setting an Emissions Reduction Target



Town of Hampton

July, 2014

Introduction

Milestone 2 of the Partners for Climate Protection (PCP) program requires a target to be set for a municipality to work toward and decrease greenhouse gas (GHG) emissions that contribute to climate change. The emissions target provides a starting point to monitor progress and gives the community a clear view of their reduction goals.

Corporate Emissions Target

The reduction target for corporate emissions follows PCP's recommended level of a 20% reduction below 2006 levels over 18 years (2006-2024). Forecasted emissions show that a 20% reduction below 2006 emissions will cut total emissions from 1,124 tonnes eCO₂ to 899 tonnes eCO₂ (Figures 1, Table 1). A 20% reduction in emissions is equivalent to removing 56 cars from the road, replacing 1,124 20-year-old refrigerators, or installing 375 residential solar hot water systems (ICLEI Canada, 2014).

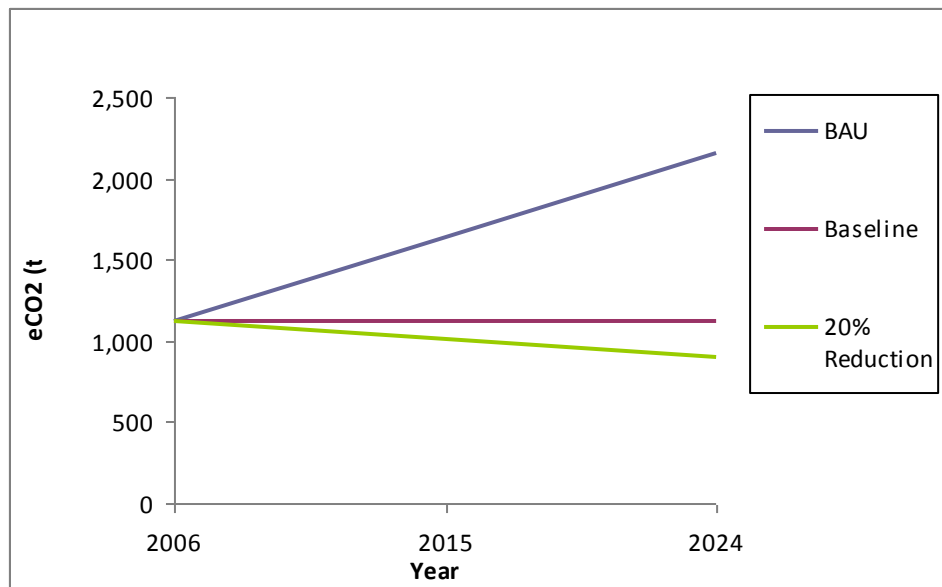


Figure 1: Corporate emissions forecast in the Town of Hampton from 2006 to 2024.

Table 1: Forecasted emission reductions in the Town of Hampton’s corporate sector from 2006-2024.

| | 2006 | 2024 |
|-----------------|--------------|------------|
| Buildings | 655 | 524 |
| Vehicle Fleet | 154 | 123 |
| Streetlights | 251 | 200 |
| Sewage | 55 | 44 |
| Corporate Waste | 9 | 7 |
| Total | 1,124 | 899 |

Community Emissions Target

The reduction target chosen by the Town of Hampton was the recommended 6% decrease in emissions set by PCP for the community inventory. This will bring emissions 6% below 2006 levels by 2024.

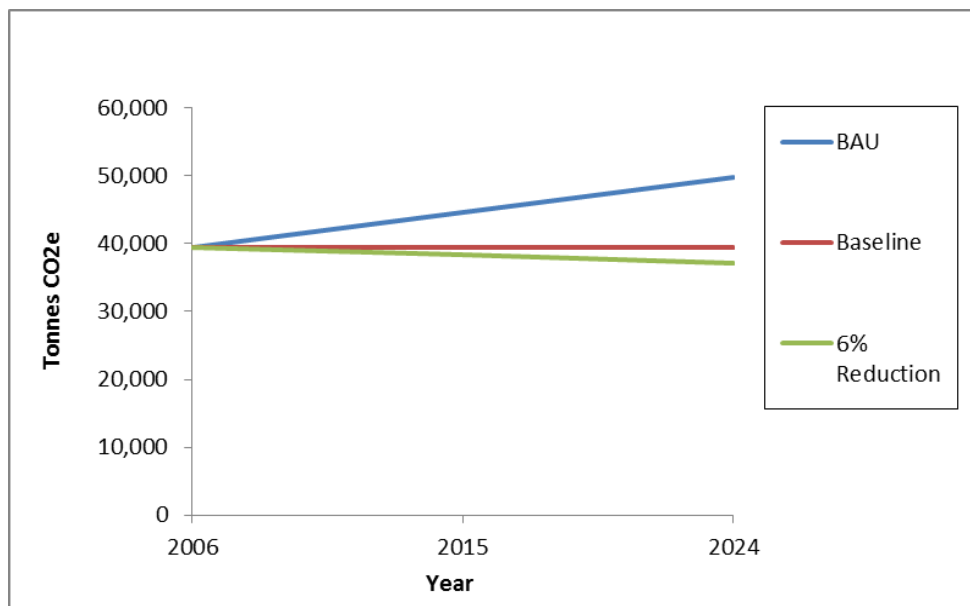


Figure 2: Emission reduction goals for the Town of Hampton (community sector) from 2006 to 2024

Table 2: Greenhouse Gas Emissions (tonnes of eCO₂) in the Town of Hampton from 2006 to 2024 after a 6% reduction.

| | 2006 | 2024 |
|----------------|---------------|---------------|
| Residential | 15,643 | 14,704 |
| Commercial | 6,949 | 6,532 |
| Industrial | 101 | 95 |
| Transportation | 16,389 | 15,406 |
| Solid Waste | 408 | 384 |
| Total | 39,493 | 37,123 |

Based on this data, a 6% reduction in emissions will change Hampton's total GHG emissions from 39,493t eCO₂ to 37,123t eCO₂ (Table 7). Reducing emissions by 6% will be equivalent to removing 604 cars from the road, replacing 12,070 20-year-old refrigerators or installing 4,023 residential solar hot water systems (ICLEI Canada, 2014).

Council Approval

The results from the community and corporate inventories were presented to council on August 12th 2014, and targets for Milestone 2 were adopted by council.

Conclusion

Reducing emissions in the Town of Hampton is important for not only reaching our PCP goal, but also for developing a clean healthy environment for the Town. These emission reduction targets set a clear goal for Hampton to strive toward in the future, and if the Town of Hampton achieves their emission reduction goals, 2,595 tonnes of greenhouse gases (eCO₂) will not be released into the atmosphere.

Source

ICLEI Canada. 2014. PCP Milestone Tool. ICLEI Governments for Sustainability.