

Revelstoke Community Energy and Emissions Plan

SUMMARY

January 2011

In June 2010, the City of Revelstoke embarked on a Community Energy and Emissions Plan to achieve several key objectives:

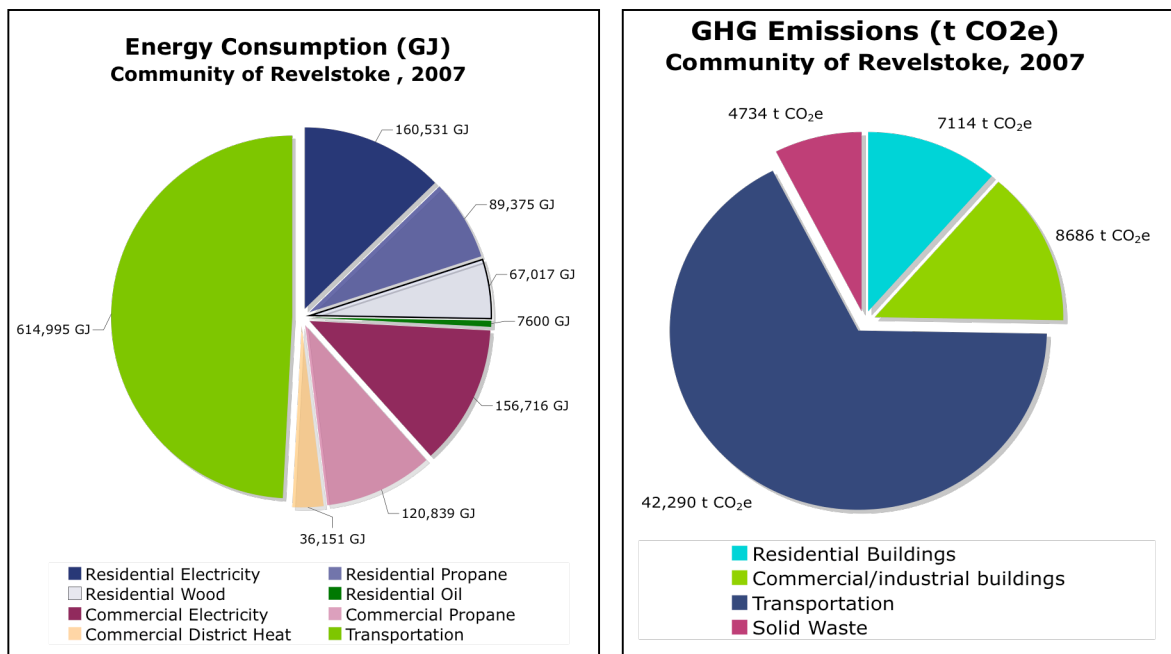
- Identify actions that reduce energy use and emissions
- Refine recent greenhouse gas (GHG) emissions targets
- Ensure policies exist or are developed to support actions identified
- Examine the potential to expand district energy
- Support Revelstoke Community Energy Corporation (RCEC) in creating a Business Plan to guide its long term development

Recommended targets and actions have been identified based on technical analysis and community input received in October. This summary provides an overview of the recommendations. Community outreach on these recommendations will take place on January 20th and 21st. Please contact Jessica Stuart at the City of Revelstoke by Tuesday, January 18th to register for these events - 250-837-3637 or jstuart@cityofrevelstoke.com.

The draft report is available at <http://revelstokecep.weebly.com/index.html>.

Baseline and Targets

The following table summarizes the **baseline energy and emissions profile** for Revelstoke, based on 2007 data. 2007 is used to be consistent with the Province of British Columbia greenhouse gas emission reduction targets.



Energy consumption and emissions are projected to rise significantly based on the anticipated growth in the community. However, there is also expected to be more legislation setting minimum energy efficiency standards and emission reductions. Further, Revelstoke has several significant opportunities to improve efficiency and reduce emissions, which are discussed below. Given these factors the following GHG emission reduction targets, compared to 2007, are recommended: **8% by 2020 and 15% by 2030**. This is slightly more aggressive than the current target of 6% by 2020, which has been adopted by the City.

Recommended Actions

Key actions that will have maximum impact, are likely to be implemented, and are supported by the public have been targeted. Actions have been kept as practical as possible, taking into account political and financial realities and limits to people's willingness to change or spend money. The following factors were taken into account:

- Impact on energy use and emissions
- Influence of local government
- Technical viability
- Financial viability
- Implementation cost
- Public support
- Geographic constraints

The following table briefly lists recommended actions that will directly contribute to the emission reduction targets, reduce energy consumption, and support expansion of district energy in Revelstoke.

| Action | Timeline |
|---|---|
| Transportation | |
| Expand cycling infrastructure to support year round cycling, including winter snow clearing, increased signage, covered bike racks, lockers, etc. | 2015 |
| Expand the use of the car share service | Ongoing |
| Expand the free transit service between RMR and downtown, as seasonal use levels increase. | Ongoing |
| Develop a parking strategy that encourages walking and cycling and supports small/high efficiency vehicles. | 2012 |
| Continue to expand and monitor idle free initiatives in the community | Ongoing |
| District Energy | |
| Focus new development within the planned area of DE expansion and increase density to that required for DE expansion. | Phased through 2030 |
| Expand the DE system to include high density nodes of new construction within the south-central, highway corridor, and resort neighbourhoods. Investigate opportunity for single-family home district energy pilot project. | Phased through 2030 |
| Explore community support to implement a service bylaw to require all new high density developments to connect to the DE system when cost effective. Implement if supported. | 2012 |
| Development | |
| Develop a rezoning policy requiring applicants to achieve a minimum number of points on the development checklist before rezoning is recommended. | 2012 |
| Households | |
| Develop a package of low cost, practical energy efficiency products for homeowners, sold at cost (or subsidized), along with information and support. | Available by 2012 |
| Solid waste | |
| Implement curbside recycling for all homes and businesses with pay-as-you-go for waste collection. | 2012 single family homes 2016 others |
| Support expanded Bear Aware backyard composting with eventual curbside organics recycling. | 2011 |
| Install landfill gas collection and flaring at the Revelstoke landfill. | 2016 |
| Community education | |
| Implement a comprehensive public education program to encourage individual actions by increasing awareness of RCEC, energy efficiency, and GHG reduction issues including information hubs and targeted workshops. | 2012 |
| Implement a targeted homeowner awareness program that identifies the best retrofit measures, delivered in conjunction with the low-cost product package | 2012 |
| Training for building design and construction personnel on home and commercial building energy retrofits | 2012 |
| Implement focused awareness programs for the hotel and hospitality sector about energy efficiency options for their operations. | 2012 |

