



COLUMBIA BASIN TRUST

2011 CARBON NEUTRAL ACTION REPORT

EXECUTIVE SUMMARY

CBT strives to be a carbon-neutral organization. We continue to successfully implement our Carbon Neutral Action Plan into our operations, from reducing printed and couriered meeting materials to replacing outdated servers and photocopiers.

We're also in the unique position of being able to support the actions of others. Each year, we provide funding to a broad range of social, economic and environmental initiatives throughout the Basin, many of which directly or indirectly focus on reducing carbon emissions. These efforts range from small to large. For example, CBT supported the Nordic centre in Golden as it upgraded its heating system. CBT funds are also helping homeowners throughout the city of Nelson retrofit their homes in order to reduce energy use.

In the coming year, we will continue to focus on means for improvement. We will further encourage the use of our videoconferencing equipment, plus will explore and implement improvements that will lower carbon emissions at our four Basin offices. We will also continue to support carbon neutral actions in the Basin spearheaded by others.



Christine Lloyd
Director, Finance and Operations



2011 GREENHOUSE GAS EMISSIONS

CBT tracks and reports all sources of emissions covered by the Greenhouse Gas Reduction Targets Act. CBT's greenhouse gas emissions for 2011 were 23 tonnes CO₂e.

OFFSETS APPLIED TO BECOME CARBON NEUTRAL IN 2011

CBT purchased 23 tonnes CO₂e in offsets from Pacific Carbon Trust for 2011 emissions at a total cost of \$644.

EMISSIONS REDUCTION ACTIVITIES

Actions Taken to Reduce Greenhouse Gas Emissions in 2011

Through its Delivery of Benefits program, CBT supported a variety of community projects aimed at reducing carbon emissions, including but not limited to:

1. Carbon Neutral Kootenays: A three-year collaboration between local governments, First Nations and CBT that focuses on reducing energy consumption and greenhouse gas emissions from municipal, regional and First Nations' corporate operations.
www.cbt.org/Initiatives/Climate_Change/?Reducing_Emissions
2. Communities Adapting to Climate Change Initiative: A CBT-supported initiative that has assisted five Basin communities in completing climate change adaptation plans, including emissions-reduction actions. The initiative is now moving into Phase 3, which will engage more Basin communities and stakeholders in climate change adaptation planning and action.
www.cbt.org/Initiatives/Climate_Change/?Adapting_to_Climate_Change
3. Columbia Basin Water Smart Initiative: A regional water conservation program that provides support to local Basin governments developing water conservation plans. Water Smart aims to achieve a 20 per cent Basin-wide reduction in community water consumption by 2015. Reductions in water use will result in energy savings and emissions reductions.
www.cbt.org/watersmart
4. City of Nelson Home Energy and Retrofit Program: A program that allows local homeowners to borrow up to \$10,000 from the City at low interest rates to increase the energy efficiency of their homes. The program will help the City meet its carbon emissions reduction goals in its *Path to 2040 Community Energy and Emissions Action Plan*.
5. Rossland Community Energy Initiative: A seven-month project that educated and engaged the Rossland community on energy conservation, plus fed into a Community Energy Plan.
www.visionstoaction.ca

6. Beyond Recycling: A school-based environmental education program that provides an action-oriented, solutions-focused curriculum that allows students to recognize the impacts of their lifestyle choices and highlights the importance of individual actions.
www.beyondrecycling.ca
7. Green Building Conference: A conference that featured leading experts in green and sustainable building to speak on the latest advancements in energy efficiency, greening of the building code, renewable energy, net zero homes and more.
www.wildsight.ca/kimberleysustainablebuilding
8. Earth Day Challenge: Between April and June 2011, Basin residents were able to go online to share what they were doing for Earth Day and invite others to join them. During the last week of the challenge, residents and organizations could also sign on to the National Commuter Challenge.
www.kootenayearthday.ca

CBT also engaged in a number of corporate carbon emissions reduction actions in 2011, including supporting staff in CBT's four offices to walk, run, bike or carpool to work.

Videoconferencing and teleconferencing infrastructure continued to be promoted and improved in an effort to reduce travel. CBT has seen increased use of its videoconferencing facilities not just by staff, but also by partner organizations and outside community groups. When travel for meetings is required by CBT staff, carpooling is chosen whenever possible. In addition, staff who live in a common area have established carpool arrangements for transportation to and from the work office.

CBT's Information Technologies also took several other steps to reduce emissions, including:

- switching from a power-hungry server infrastructure to a virtualized environment, effectively replacing approximately 20 old servers with seven highly power-efficient, Energy Star-certified servers;
- replacing printed and couriered Board of Directors meeting materials with electronically delivered and annotated packages; and
- replacing outdated photocopiers with Energy Star-certified devices.

Plans to Continue Reducing Greenhouse Gas Emissions 2012 – 2014

CBT will remain committed to reducing carbon emissions through ongoing Delivery of Benefits programs and initiatives such as Carbon Neutral Kootenays and Water Smart. In its own corporate operations, CBT will continue to promote the use of videoconferencing equipment in order to reduce travel, and will explore and implement improvements to its four offices in order to lower carbon emissions.





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W W W . C B T . O R G

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Actions Towards Carbon Neutrality

The actions listed below contribute to a reduction in greenhouse gas emissions from sources for which public sector organizations are responsible under the carbon neutral government regulation of the *Greenhouse Gas Reduction Targets Act*.

| Action | Status (as of 12/31/11) | Performance to Date (as of 12/31/11) | | Steps Taken in 2011 | Steps Planned for 2012 -2014 | Start Year | End Year |
|--|----------------------------|---|--|--|--|------------|--------------------------|
| Mobile Fuel Combustion (Fleet and other mobile equipment) | | | | | | | |
| This section is either not applicable, not yet evaluated, or was completed before 2011 | | | | | | | |
| Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings) | | | | | | | |
| IT power management | | | | | | | |
| Implement server virtualization | Completed in 2011 | 100 | % of servers have been virtualized since start year indicated | In 2011 we implemented server virtualization for our entire organization to decrease our carbon emissions, increase our efficiency and save costs. | | 2011 | 2011 |
| Remove stand-alone printers, copiers, and/or fax machines and install multi-function devices | Ongoing/In Progress | 30 | % reduction in printers, copiers, and/or fax machines since start year indicated | A number of new staff have been added without adding stand-alone devices. Instead they will use the multi-function devices set up for general staff usage, which helps us decrease carbon emissions. | As CBT adds staff and reconfigures processes and technology, we will strive to utilize multi-function devices wherever possible. | 2009 | No End Date (Continuous) |
| Replace computers with ENERGY STAR models during regular computer upgrades | Ongoing/In Progress | 90 | % of computers are ENERGY STAR rated | When any computers are replaced, they are replaced with ENERGY STAR-rated models. | Continued replacement with ENERGY STAR models as required. | 2009 | No End Date (Continuous) |
| Supplies (Paper) | | | | | | | |
| Paper Type | | | | | | | |
| Purchase 30% post-consumer recycled paper | Ongoing/In Progress | 34 | % of total paper purchased contains 30% recycled content | CBT purchases the highest percentage post-consumer recycled paper possible at all times. | CBT purchases the highest percentage post-consumer recycled paper possible at all times. | 2009 | No End Date (Continuous) |
| Purchase 40% post-consumer recycled paper | Ongoing/In Progress | 33 | % of total paper purchased contains 40% recycled content | CBT purchases the highest percentage post-consumer recycled paper possible at all times. | CBT purchases the highest percentage post-consumer recycled paper possible at all times. | 2009 | No End Date (Continuous) |
| Purchase 100% post-consumer recycled paper | Ongoing/In Progress | 33 | % of total paper purchased contains 100% recycled content | CBT purchases the highest percentage post-consumer recycled paper possible at all times. | CBT purchases the highest percentage post-consumer recycled paper possible at all times. | 2009 | No End Date (Continuous) |
| Behaviour change program | | | | | | | |
| Encourage staff to hold paperless meetings or presentations (i.e., no handouts) | Ongoing/In Progress | | | In 2011 CBT replaced printed and couriered Board of Directors meeting materials with electronically delivered and annotated packages. | We will continue to strive to hold paperless meeting wherever possible. | 2011 | No End Date (Continuous) |

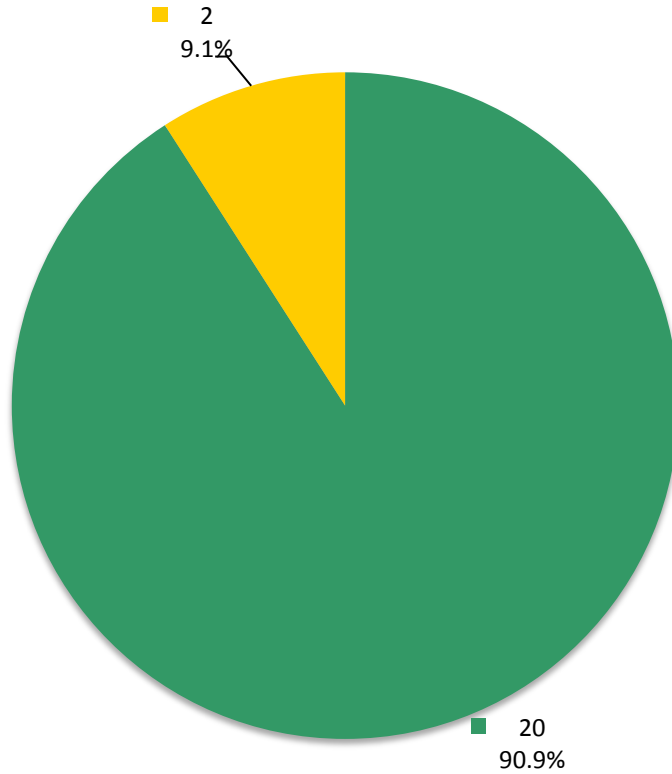
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Actions to Reduce Provincial Emissions and Improve Sustainability

The actions listed below contribute to a reduction in greenhouse gas emissions from sources that fall outside of the reporting requirements defined in the carbon neutral government regulation of the *Greenhouse Gas Reduction Targets Act*. Public sector organizations can optionally use this section to report on actions that will help British Columbia meet its provincial greenhouse gas reduction targets, engage the public, and improve environmental sustainability across all aspects of their organization.

| Action | Status (as of 12/31/11) | Performance to Date (as of 12/31/11) | Steps Taken in 2011 | Steps Planned for 2012 -2014 | Start Year | End Year |
|--|----------------------------|---|--|---|------------|-----------------------------|
| Business Travel | | | | | | |
| Behaviour change program | | | | | | |
| Encourage carpooling to meetings | Ongoing/In Progress | | Staff are encouraged to carpool on an ongoing basis. | Staff will continue to be encouraged to carpool. | 2009 | No End Date (Continuous) |
| Education, Awareness, and Engagement | | | | | | |
| Client/public awareness/education | | | | | | |
| Provide education to clients/public about the science of climate change | Ongoing/In Progress | | CBT was involved in a variety of climate change educational workshops and developed educational materials (brochures, pamphlets and web-based material). See: http://www.cbt.org/Initiatives/Climate_Change . | CBT will continue to provide information to the public through our Delivery of Benefits programs. | 2009 | No End Date (Continuous) |
| Provide education to clients/public about the conservation of water, energy, and raw materials | Ongoing/In Progress | | CBT's Water and Environment Initiatives department, in addition to Delivery of Benefits partners, researches and provides extensive information to residents on water conservation. See: http://www.cbt.org/Initiatives/water . | CBT will continue to provide information to the public through our Delivery of Benefits programs. | 2009 | No End Date (Continuous) |
| Provide green tips on client/public website or in newsletters | Ongoing/In Progress | | CBT's Water and Environment Initiatives department, in addition to Delivery of Benefits partners, provides green tips to the public. See: http://www.cbt.org/Initiatives/Climate_Change . | CBT will continue to provide information to the public through our Delivery of Benefits programs. | 2009 | No End Date (Continuous) |

**Columbia Basin Trust
Greenhouse Gas Emissions by Source
for the 2011 Calendar Year (tCO₂e*)**



Total Emissions: 23

■ Stationary Fuel Combustion (Building Heating and Generators) and Electricity

■ Supplies (Paper)

Offsets Applied to Become Carbon Neutral in 2011 (Generated May 18, 2012 10:18 AM)

Total offsets required: **23**. Total offset investment: **\$575**. Emissions which do not require offsets: **0** **

*Tonnes of carbon dioxide equivalent (tCO₂e) is a standard unit of measure in which all types of greenhouse gases are expressed based on their global warming potential relative to carbon dioxide.

** Under the *Carbon Neutral Government Regulation of the Greenhouse Gas Reduction Targets Act*, all emissions from the sources listed above must be reported. As outlined in the regulation, some emissions do not require offsets.