

KNOWLEDGE NETWORK CORPORATION - 2010 Carbon Neutral Action Report

Executive Summary

Knowledge Network is BC's viewer supported public broadcaster. Our 2010 climate change action plans focus primarily on educational broadcast initiatives that influence behavioural change. As a tenant in a building owned and operated by the British Columbia Institute of Technology, we do not have influence over the building operations.

Over the past year, we made progress in many key areas including post-consumer recycled paper usage and consumption. Our "Knowledge Green Team" also initiated a number of programs to increase staff awareness and education on climate change.

Our most significant impact continues to be with our broadcast service, both on-air and online at Knowledge.ca. With an average weekly reach of 1.4 million viewers, Knowledge Network is well positioned to educate British Columbians about the issues of climate change, conservation and sustainability. We are committed to researching and acquiring content in these areas that will engage audiences across the province.



Rudy Buttignol
President and CEO
Knowledge Network Corporation

2010 Greenhouse Gas Emissions

Total greenhouse gas (GHG) emissions from all sources was 96.35 tonnes of CO₂e.

Offsets Applied to become Carbon Neutral in 2010

Carbon offsets for the above amount were purchased from the Pacific Carbon Trust.

Emission Reduction Activities

Actions Taken to Reduce Greenhouse Gas Emissions in 2010:

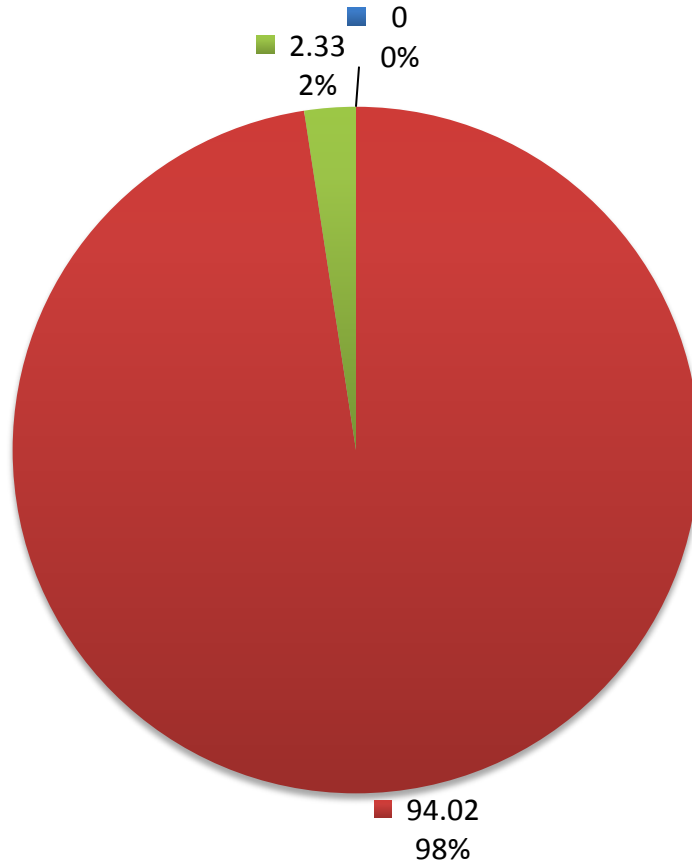
- Reduced consumption of paper by 11%.
- All paper purchased contains 30% recycled content.
- Web environment has been moved to virtual servers.

- Documentaries broadcast to educate viewers on climate change and the conservation of water, energy and raw materials.
- Knowledge Green Team implemented on-going communications to engage staff.
- Knowledge Green Team developed proposal to move to ADP Total Access as an electronic payroll notification system in 2011.

Plans to Continue Reducing Greenhouse Gas Emissions 2011 - 2013:

- Continue to broadcast documentaries educating viewers on climate change and the conservation of water, energy and raw materials.
- Implement electronic payroll notification system to ADP Total Access.

Knowledge Network Corporation Greenhouse Gas Emissions by Source for the 2010 Calendar Year (tCO₂e*)



Total Emissions: 96.35

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion and Electricity (Buildings)
- Supplies (Paper)

Offsets Applied to Become Carbon Neutral in 2010

Total offsets purchased: **96.35**. Total offset investment: **\$2,408.75**. 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.

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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 12/31/10)	Performance to Date (as of 12/31/10)		Steps Taken in 2010	Steps Planned for 2011 -2013	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 2010							
Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)							
IT power management							
Implement server virtualization	Ongoing/In Progress	95	% of servers have been virtualized since start year indicated	Entire web environment has been moved to virtual servers	We will look at further server and storage virtualization.	2009	2012
Apply auto-sleep settings on computer monitors and CPUs	Ongoing/In Progress	80	% of computers have auto-sleep settings applied	Applied auto-sleep settings on 80% of computer monitors.	Apply auto-sleep settings on remaining 10% of computers.	2010	2011
Apply auto-sleep settings on printers, copiers, fax machines, and/or multi-function devices	Ongoing/In Progress	50	% of devices have auto-sleep settings applied	Continued to apply auto-sleep settings to printers and copiers.	Complete auto-sleep settings on all printers and copiers.	2010	2012
Replace computers with ENERGY STAR models during regular computer upgrades	Ongoing/In Progress	80	% of computers are ENERGY STAR rated	Continued to replace computers with ENERGY STAR models.	Complete replacement of computers with ENERGY STAR models.	2009	2012
Appliances and electronic devices							
Replace refrigerators with ENERGY STAR models or source ENERGY STAR models for future purchases	Ongoing/In Progress	25	% of fridges are ENERGY STAR rated	While we started replacing expired fridges with Energy Star models in 2008, no new fridges were required in 2010.	When our current fridges expire, they will be replaced with Energy Star models.	2008	No End Date (Continuous)
Behaviour change program							
Help staff reduce personal energy use through "workstation tune-ups"	Ongoing/In Progress	90	% of current staff have completed a workstation tune-up	Conducted work station tune-ups for staff.	Complete work station tune ups for all staff.	2009	2011
Ask staff to unplug electrical equipment or switch off power bars when not in use	Ongoing/In Progress			Green team identified ways to increase engagement and awareness re. our carbon neutral commitments and actions, including regular communications with staff.	Continue with regular updates and reminders on ways to reduce energy consumption at work.	2009	No End Date (Continuous)
Ask staff to close blinds at end of work day to reduce heating/cooling demands	Ongoing/In Progress			Reminders go out to staff regularly.	Reminders will continue to go out to staff regularly.	2009	No End Date (Continuous)
Provide tips to staff on saving energy in the office while working outside of regular business hours	In Development			Plans in development with Green Team.	Include building tips into ongoing communications with staff.	2010	No End Date (Continuous)
Promote hot water conservation	In Development			Plans in development with Green Team.	Include hot water conservation into ongoing communications with staff.	2010	No End Date (Continuous)
Supplies (Paper)							
Paper Type							
Purchase 30% post-consumer recycled paper	Ongoing/In Progress	100	% of total paper purchased contains 30% recycled content	Reduced consumption of paper by 11%. 100% of total paper purchased contains 30% recycled content.	Continue to identify ways to further reduce paper consumption.	2009	2011

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Action	Status (as of 12/31/10)	Performance to Date (as of 12/31/10)		Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
Printer/document settings							
Switch networked printers and photocopiers to automatic double-sided	Ongoing/In Progress	20	% of network printers or photocopiers are set to automatic double-sided	None.	Some printers do not have this capacity; options are being explored.	2009	2012
Electronic media in place of paper							
Switch to an electronic payroll notification system in place of paper pay stubs	In Development			Exploring moving to ADP Total Access as an electronic payroll notification system. Educating staff on benefits of moving to the new system.	Implement new electronic payroll notification system.	2010	2011
Behaviour change program							
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress			Staff were reminded and encouraged to hold paperless meetings and/or presentations.	Green Team will continue to keep paperless meetings top of mind with staff.	2009	2011
Encourage re-use of scrap paper	Ongoing/In Progress			Staff were reminded and encouraged to reuse scrap paper.	Green team will continue to encourage staff to reuse scrap paper.	2009	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 12/31/10)	Performance to Date (as of 12/31/10)	Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year	
Business Travel							
Virtual meeting technology							
Make desktop web-cameras available to staff	In Development		Explored desktop web-camera use with small sample of staff.	Continue to explore viability of desktop web-camera use.	2009	No End Date (Continuous)	
Education, Awareness, and Engagement							
Team-building							
Provide resources and/or dedicated staff to support teams	Completed in 2010		Green Team given budget and mandate.	Develop and implement plans with outcomes and measures.	2009	2010	
Staff awareness/education							
Provide education to staff about the science of climate change	In Development		Green Team gathered research and evaluated approaches to educating staff about the science of climate change.	Provide staff with information and resources on the science of climate change through emails, web links, and lunch and learn presentation.	2010	2012	
Provide education to staff about the conservation of water, energy, and raw materials	Ongoing/In Progress		Green Team developed plans to engage staff.	Build on staff engagement and provide resources about the conservation of water, energy and raw materials.	2010	2012	
Provide green tips on staff website or in newsletters	Ongoing/In Progress		Space on staff website in development.	Populate Green team section of staff website with green tips.	2010	2011	
Provide sustainability education during new staff orientation	In Development		Sustainability information in development by Green Team.	Green Team to provide information to Human Resources.	2010	2011	
Client/public awareness/education							
Provide education to clients/public about the science of climate change	Ongoing/In Progress	4	Documentaries on climate change education.	Examples include: Global Dimming - Climate scientists discover a phenomenon that threatens to disrupt our world, which may have already contributed to the deaths of hundreds of thousands through drought and famine. Extreme Ice - Acclaimed photographer James Balog teams with scientists to document the runaway melting of arctic glaciers.	We will continue to acquire and broadcast well researched, high quality programs to educate British Columbians on climate change.	2009	No End Date (Continuous)
Provide education to clients/public about the conservation of water, energy, and raw materials	Ongoing/In Progress	2	Documentaries about the conservation of water, energy and raw materials.	Water on the Table - Explores Canada's relationship to its freshwater resources and features Canadian activist Maude Barlow in her pursuit to protect water from privatization. A Sustainable Future: Creating A Legacy - The mission of the Earth Rangers is "to inspire within children a lifelong passion to improve the environment." In A Sustainable Future, we see their mission take concrete form in the construction of the \$23 million Earth Rangers Centre north of Toronto. Planned as a model of sustainable development, the new centre houses a wildlife hospital capable of handling 5,000 animals per year, a theatre and interactive displays for visitors and student tours, Canada's only oil spill response unit for rescuing wildlife, and a world-class veterinary training and research hospital.	We will continue to acquire and broadcast well researched, high quality programs to educate British Columbians on the conservation of water, energy and raw materials.	2009	No End Date (Continuous)
Other Sustainability Actions							

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Action	Status (as of 12/31/10)	Performance to Date (as of 12/31/10)	Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
Procurement (non-paper supplies)						
Establish green standards for goods that are replaced infrequently and/or may require capital funds to purchase (e.g., office furniture, carpeting, etc.)	Ongoing/In Progress		Continued to work with facilities to identify goods that would be covered under the proposed green standards.	Green Team to complete green standards for use by Facilities.	2010	2012
Indoor air quality						
Enforce a scent-free policy (e.g., no strong perfumes, deodorants, etc.)	Completed in 2010		Communicated policy to staff; reminders will go out throughout the year.		2009	2010