

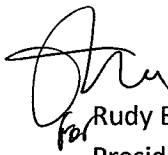
Knowledge Network Corporation - 2009 Carbon Neutral Action Report

Executive Summary

Knowledge is British Columbia's public educational broadcaster. As a tenant in a building owned and operated by the British Columbia Institute of Technology, our climate change initiatives focus on activities we can influence and/or have control over. Knowledge has no fleet of vehicles, so our actions are limited to purchasing, behavioural change and educational programming.

In 2009 we completed the first year of our carbon neutral action plans, establishing baseline data to help us with our planning moving forward. Specifically, we began measuring our paper usage, with the goal of reducing indirect emissions from office paper purchases. Our Knowledge Green Team was also established, with representatives from across our organization.

Our most significant impact has been with our broadcast service. With an average weekly reach of over 1.4 million viewers, Knowledge plays an important role educating British Columbians about the issues of climate change, conservation and sustainability. We continue to research and acquire compelling and informative programs that will resonate with both our young and adult viewers.



Rudy Buttignol
President & CEO
Knowledge Network Corporation

Overviews

Actions Taken to Reduce Greenhouse Gas Emissions in 2009

Actions Toward Carbon Neutrality - Highlights

- Developed plan and allocated budget to replace older computers in 2010.
- Began work station "tune-ups" and encouraged staff to unplug electrical equipment when not in use.
- Measured current consumption of paper usage monthly from January 2009 to December 2009 and established reduction targets for the next three years.
- Switched network printers and photocopiers to automatic double-sided.

Actions Taken to Reduce Provincial Emissions and Improve Sustainability - Highlights

- Established Knowledge Green team with mandate and allocated resources.

- Broadcast six documentary series on conservation education, and two children's series that include episodes on conservation education.

Operational Changes in 2009

We completed our transformation from an analogue to digital broadcaster in 2009 working with two key suppliers of broadcast equipment and software - Miranda and Harris Corporation. Energy and space conservation are key design priorities for Miranda, with the products installed requiring substantially less energy, cooling, and rack space. Their products consume significantly less raw materials, and will create less electronic waste at the end of their lives. By moving to servers that support our digital broadcast platform, we are decreasing our reliance on video tapes with the goal of becoming a completely tapeless broadcast environment in the near future. Harris Corporation is committed to addressing current and emerging environmental, health and safety requirements. Their latest environmental report can be viewed at www.harris.com/community/Harris_Environmental_Report.pdf

Plans to Continue Reducing Greenhouse Gas Emissions 2010 – 2012

Our focus over the next three years includes:

- Meeting our targets and reducing indirect emissions from office paper purchases
- Increasing public awareness and education.
- Increasing staff awareness and education.

Knowledge: Pass It On

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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 12/31/09)	Performance to Date (as of 12/31/09)		Steps Taken in 2009	Steps Planned for 2010 -2012	Start Year	End Year
Mobile Fuel Combustion (Fleet and other mobile equipment)							
This section is not applicable to this organization							
Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)							
IT power management							
Implement server virtualization	Ongoing/In Progress	90	% of servers have been virtualized since start year indicated	All email and calendars were moved to a virtual environment using servers with lower power consumption.	We will look at further server and storage virtualization.	2010	2012
Apply auto-sleep settings on computer monitors and CPUs	In Development				Plans in development with Knowledge Green Team.	2010	2012
Apply auto-sleep settings on printers, copiers, fax machines, and/or multi-function devices	In Development				Plans in development with Knowledge Green Team.	2010	2012
Replace computers with ENERGY STAR models during regular computer upgrades	Ongoing/In Progress			Developing plans and allocating budget to replace older computers with Energy Star models.	Replace 20 older computers with Energy Star models.	2010	2011
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	None.	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	5	% of current staff have completed a workstation tune-up	Initiated process to conduct work station tune-ups for all staff.	Increase by 5% the number of staff who have completed workstation tune-ups.	2010	2011
Ask staff to unplug electrical equipment or switch off power bars when not in use	Ongoing/In Progress			Formally established Knowledge Green Team who will now play a central role increasing staff engagement and awareness re. our carbon neutral commitments and actions.	Knowledge Green Team to develop a behaviour change program supported by a plan for ongoing communications with staff.	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.	2010	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 Knowledge Green Team.	2010	No End Date (Continuous)
Encourage use of stairs instead of elevators	Complete			Reminders go out to staff regularly.		2010	No End Date (Continuous)
Provide reminders for turning off lights (e.g., signs, stickers, messages)	Complete			General communications/information was shared with staff.	Knowledge Green Team is developing will develop plan to encourage this behaviour change.	2010	No End Date (Continuous)
Promote hot water conservation	In Development				Plans in development with Knowledge Green Team.	2010	No End Date (Continuous)
Supplies (Paper)							
Paper Type							

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Action	Status (as of 12/31/09)	Performance to Date (as of 12/31/09)		Steps Taken in 2009	Steps Planned for 2010 -2012	Start Year	End Year
Purchase 30% post-consumer recycled paper	Ongoing/In Progress	0	% of total paper purchased contains 30% recycled content	Measured current consumption of paper usage; developed reduction targets. Knowledge Partners (fundraising arm) switched to FSC certified paper stock for 90% of all correspondence, including the Program Guide which goes out six times a year to over 26,000 donors.	Reduce consumption of paper by 3%.	2010	2011
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	Two high volume network printers switched to automatic double-sided.	Some printers do not have this capacity; options will be explored.	2010	2012
Electronic media in place of paper							
Install collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	Complete	100	% of staff workstations with software installed	Sharepoint Software installed in all computers.		2009	2009
Use electronic document library for filing common documents	Complete			Electronic Library part of Sharepoint.		2009	2009
Post materials online that were previously printed	Complete			Each department can post/share materials online through Sharepoint.		2009	2009
Behaviour change program							
Train staff to use collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	Complete	100	% of staff currently have received collaborative software training	Training for all staff on Sharpoint.		2009	2009
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress			Computer and television equipment set up in Boardroom to encourage electronic presentations.	Plans in development with Green Team.	2010	2011
Encourage re-use of scrap paper	Ongoing/In Progress			Staff were reminded about and encouraged to use scap paper.	Plans in development with Green Team.	2010	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 12/31/09)	Performance to Date (as of 12/31/09)	Steps Taken in 2009	Steps Planned for 2010 -2012	Start Year	End Year
Business Travel						
Behaviour change program						
Encourage staff to consider virtual attendance/presentation at events where possible	Complete		Staff have been reminded and are encouraged to consider virtual attendance/presentation at events on a regular basis.		2009	No End Date (Continuous)
Encourage carpooling to meetings	Complete		Staff have been reminded and are encouraged to carpool to meetings on a regular basis.		2009	No End Date (Continuous)
Encourage alternative travel to meetings (e.g., bicycles, public transit, walking)	Complete		Staff have been reminded and are encouraged to use alternative travel to meetings on a regular basis.		2009	No End Date (Continuous)
Education, Awareness, and Engagement						
Team-building						
Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement	Complete		Knowledge Green Team established.	Knowledge Green Team to develop plans for fiscal year.	2010	2011
Provide resources and/or dedicated staff to support teams	Ongoing/In Progress		Outcomes for Knowledge Green Team developed.	Knowledge Green Team to be given budget and mandate.	2010	2011
Staff awareness/education						
Provide education to staff about the science of climate change	In Development			Knowledge Green Team to develop action plan.	2010	2012
Provide education to staff about the conservation of water, energy, and raw materials	In Development		Knowledge Green Team established.	Knowledge Green Team to develop plan to engage staff.	2010	2012
Provide green tips on staff website or in newsletters	In Development		Knowledge Green Team established.	Knowledge Green Team to develop plan to engage staff.	2010	2011
Provide sustainability education during new staff orientation	In Development		Knowledge Green Team established.	Knowledge 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		Programming examples include: For adults - Six Degrees That Could Change The World - Examines the devastating ecological impact an increase in temperature of six degrees celsius could have on our planet over the next century. Arctic Mission - An exploration of the Arctic ecosystem that reveals how the phenomenon of global warming is having a serious impact on our planet.	We will continue to acquire and broadcast well-researched, high quality programs to educate British Columbians on climate change.	2010	No End Date (Continuous)

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Action	Status (as of 12/31/09)	Performance to Date (as of 12/31/09)	Steps Taken in 2009	Steps Planned for 2010 -2012	Start Year	End Year
Provide education to clients/public about the conservation of water, energy, and raw materials	Ongoing/In Progress		Programming examples include: For children 2-8 - Think Big (episodes 3,6,11 & 12) examines green solutions in new innovations. Magic School Bus has "green lessons" including recycling and conservation. For adults - Energy E2 - is a series about the economy of being environmentally conscious, covering the ongoing shift in design technologies, architecture and urban planning. Big Ideas for a Small Planet - profiles scientists, designers, entrepreneurs and inventors who are incorporating sustainability into their lives.	We will continue to acquire and broadcast well-researched, high quality programs to educate British Columbians on conservation.	2010	No End Date (Continuous)
Other Sustainability Actions						
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		Worked with Facilities to identify goods that would be covered under the proposed green standards.	Knowledge Green Team to develop standards.	2010	2012
Indoor air quality						
Enforce a scent-free policy (e.g., no strong perfumes, deodorants, etc.)	Complete		Policy developed and implemented.		2009	2010
Commuting to and from home						
Encourage commuting by foot, bicycle, carpool or public transit	Complete		Part of ongoing communications with staff.		2008	No End Date (Continuous)