



## **KNOWLEDGE NETWORK CORPORATION - 2011 Carbon Neutral Action Report**

### **Executive Summary**

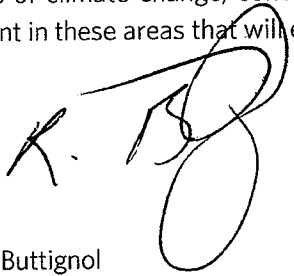
Knowledge Network Corporation's Carbon Neutral Action Report was prepared in accordance with the *Greenhouse Gas Reduction Targets Act* adopted in November 2007 by the Ministry of Environment's Climate Action Secretariat. As B.C.'s viewer supported public broadcaster, it reflects our ongoing commitments to act responsibly on the environment and to increase awareness of environmental and climate change issues with our viewers across the province.

There were three significant activities implemented in 2011 to reduce our greenhouse gas emissions:

- 1) The transition to an electronic payroll notification system in place of paper pay stubs for all Knowledge Network Corporation employees.
- 2) Efforts to reduce post-consumer recycled paper usage and consumption resulted in a 16% decrease from the previous year.
- 3) A new environmentally friendly, paperless partnership was introduced to our 35,000 donors across B.C.

As a tenant in a building owned and operated by the British Columbia Institute of Technology, building operations are beyond our control.

Knowledge Network Corporation's 2012 climate change action plans focus primarily on educational broadcast initiatives that influence behavioural change. Our greatest impact continues to be with our public broadcast service, both on-air and online at Knowledge.ca and KnowledgeKids.ca. With an average weekly reach of 1.5 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

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### **2011 Greenhouse Gas Emissions**

Total greenhouse gas (GHG) emissions from all sources was 101 tonnes of CO<sub>2</sub>e.

### **Offsets Applied to become Carbon Neutral in 2011**

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

### **Emission Reduction Activities**

Actions Taken to Reduce Greenhouse Gas Emissions in 2011:

- Implemented an electronic payroll notification system replacing paper pay stubs.
- Reduced consumption of paper by 16% over last year.
- Introduced a new environmentally friendly, paperless partnership to our 35,000 donors in B.C.
- Purchased paper containing 30% recycled content.
- Replaced disposable utensils and plates used by staff with permanent ones.
- Educated viewers by broadcasting documentary series to educate viewers on climate change and the conservation of water, energy and raw materials.
- Implemented on-going communications to engage staff.

Plans to Continue Reducing Greenhouse Gas Emissions 2012 - 2014:

- Broadcast content delivery will transition from physical tape to electronic files for editing, close captioning and dubbing.
- We will continue to educate British Columbians through the broadcast of documentary series on issues of climate change, conservation and sustainability.

# Knowledge Network Corporation - 2011 Carbon Neutral Action Report

## 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
<b>Mobile Fuel Combustion (Fleet and other mobile equipment)</b>						
This section is either not applicable, not yet evaluated, or was completed before 2011						
<b>Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)</b>						
<b>IT power management</b>						
Implement server virtualization	Ongoing/In Progress	95 % of servers have been virtualized since start year indicated	Research continued into further server and storage virtualization.	Complete server and storage virtualization plans.	2009	2012
Apply auto-sleep settings on computer monitors and CPUs	Completed in 2011	100 % of computers have auto-sleep settings applied	Applied auto-sleep settings on remaining computer monitors.			
Apply auto-sleep settings on printers, copiers, fax machines, and/or multi-function devices	Completed in 2011	100 % of devices have auto-sleep settings applied	Applied auto-sleep settings on remaining printers and multi-function devices.			
Replace computers with ENERGY STAR models during regular computer upgrades	Completed in 2011	100 % of computers are ENERGY STAR rated	Completed upgrades of computers with ENERGY STAR models.			
<b>Appliances and electronic devices</b>						
Replace refrigerators with ENERGY STAR models or source ENERGY STAR models for future purchases	Ongoing/In Progress	25 % of fridges are ENERGY STAR rated	No new refrigerators were purchased in 2011.	When current fridges expire, they will be replaced by ENERGY STAR models.	2009	2014
<b>Behaviour change program</b>						
Help staff reduce personal energy use through "workstation tune-ups"	Completed in 2011	100 % of current staff have completed a workstation tune-up	Finalized workstation tune-ups for staff.			
Ask staff to unplug electrical equipment or switch off power bars when not in use	Completed in 2011		Increased awareness and encouraged staff to unplug equipment and switch off poer bars when not in use.			
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			Green Team to complete communication plan.	2010	2012
Promote hot water conservation	In Development			Green Team to complete communication plan.	2010	No End Date (Continuous)
<b>Supplies (Paper)</b>						
<b>Printer/document settings</b>						
Switch networked printers and photocopiers to automatic double-sided	Completed in 2011	100 % of network printers or photocopiers are set to automatic double-sided	Switched to automatic double-sided on remaining network printers and photocopiers.			
<b>Electronic media in place of paper</b>						

## Knowledge Network Corporation - 2011 Carbon Neutral Action Report

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
Switch to an electronic payroll notification system in place of paper pay stubs	Completed in 2011		Moved payroll from paper based system to electronic payroll notification system for all staff.			
<b>Behaviour change program</b>						
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress		Staff were reminded and encouraged to hold paperless meetings or presentations.	Reminders will continue throughout organization.	2009	No End Date (Continuous)
Encourage re-use of scrap paper	Ongoing/In Progress		Staff were reminded and encouraged to reuse scrap paper.	Reminders will continue throughout organization.	2009	No End Date (Continuous)

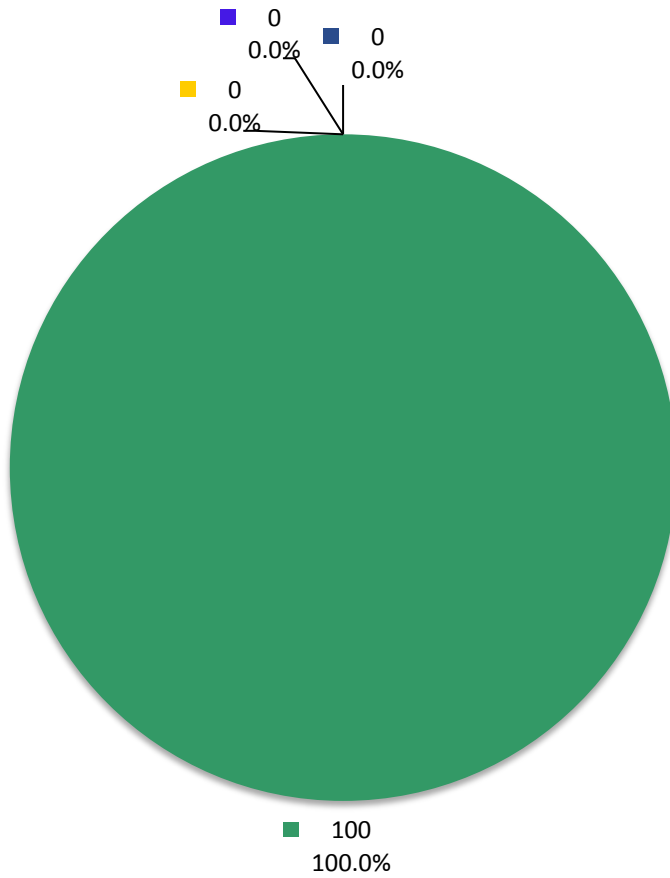
# Knowledge Network Corporation - 2011 Carbon Neutral Action Report

## 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
<b>Business Travel</b>						
<b>Virtual meeting technology</b>						
Make desktop web-cameras available to staff	In Development			Continue to explore viability of desk top web camera use.	2009	No End Date (Continuous)
<b>Education, Awareness, and Engagement</b>						
<b>Staff awareness/education</b>						
Provide education to staff about the science of climate change	Ongoing/In Progress		Knowledge Network programs with information on these subjects shared with staff through seasonal preview meetings.	Continue to evaluate approaches to educating staff about the science of climate change.	2010	2012
Provide education to staff about the conservation of water, energy, and raw materials	Ongoing/In Progress		Knowledge Network programs with information on these subjects shared with staff through seasonal preview meetings.	Continue to evaluate approaches to educating staff about the conservation of water, energy and raw materials.	2010	2012
Provide green tips on staff website or in newsletters	Ongoing/In Progress		Information page on staff intranet site in development.	Complete project.	2010	2012
Provide sustainability education during new staff orientation	In Development		Information package in development.	HR to include in orientation package.	2010	2012
<b>Client/public awareness/education</b>						
Provide education to clients/public about the science of climate change	Ongoing/In Progress		Examples include: Rapidly Changing Arctic - a series documenting the drastic changes caused by climate change in Canada's north. How the Earth Changed History - a five part series revealing how geology, geography and climate have had a far more powerful influence on human civilization than has previously been acknowledged.	We will continue to acquire and broadcast well researched, high quality programs to educate British Columbians on the science of climate change.	2009	No End Date (Continuous)
Provide education to clients/public about the conservation of water, energy, and raw materials	Ongoing/In Progress		Examples include: Architects of Change - a ten part series profiling men and women around the world who have succeeded in creating new models of sustainable economic development. Eco-Engineering - an exploration of the latest cutting edge technologies that offer crucial alternatives for building projects and to help power our planet. Homeland the inspiring story of four battles in which Native North American activists are fighting to preserve their land, sovereignty and culture.	We will continue to acquire and broadcast well researched, high quality programs to educate British Columbians about the conservation of water, energy and raw materials.	2009	No End Date (Continuous)
<b>Other Sustainability Actions</b>						
<b>Procurement (non-paper supplies)</b>						
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 process of identifying goods that would be covered under proposed green standards.	Complete review process.	2010	2013

**Knowledge Network Corporation  
Greenhouse Gas Emissions by Source  
for the 2011 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 101**

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)
- Fugitive

**Offsets Applied to Become Carbon Neutral in 2011 (Generated May 18, 2012 10:23 AM)**

Total offsets required: **101**. Total offset investment: **\$2,525**. Emissions which do not require offsets: **0** \*\*

\*Tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) 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.