

SCHOOL DISTRICT NO.92 (NISGA'A)
2011 CARBON NEUTRAL ACTION OVERVIEW



School District No. 92 (Nisga'a) 2011 Carbon Neutral Action Overview

Executive Summary:

School District No. 92 (Nisga'a) has been contributing towards carbon number of years by investing in equipment and lighting retrofits and working with employees and building systems to improve overall systems performance and reduce energy consumption. Over the years we have completed heating and lighting energy improvements through a partnership with BC Hydro in the Powersmart Program. We are continuing to work toward improving our mechanical and control systems which will improve comfort to our occupants and allow us to operate our buildings economically. We are continuing work with our employees and students to minimize waste in our schools. Our schools will begin to expand on environmental learning into the curriculum. We will begin on recycling, composting and waste reduction programs in the schools which will increase student and staff participation. We continue with vehicle preventive maintenance and our anti-idling program. We will also begin to move toward using sustainable products for cleaning and building maintenance.

Actions Taken to Reduce Greenhouse Gas Emissions in 2011

School District No.92 (Nisga'a) is in a unique area of northern BC. This puts in a position to take a leadership role and demonstrate the steps needed to reduce greenhouse gas emissions in each of our communities. We see this responsibility and opportunity to engage our students, employees and partners in this School District's mandate to reduce greenhouse gas emissions. The leadership we take in greenhouse gas emissions will allow our organization to become more fiscally responsible by reducing waste through energy conservation. This will allow us to balance social, economic and environmental issues for future generations not only in our School District but local communities.

Since the introduction of the Carbon Neutral Action program we are beginning to notice the difference in our paper waste, fuel consumption, energy use and overall employee environmental awareness.

Plans to Continue Reducing Greenhouse Gas Emissions 2011 – 2013

Because electricity in our area is our primary heat source in all our facilities, we will continue to work with BC Hydro through their Powersmart program to reduce energy. WE will continue to improve fuel consumption through our vehicle preventive maintenance program. We will also continue to move toward our student and staff environmental awareness program.

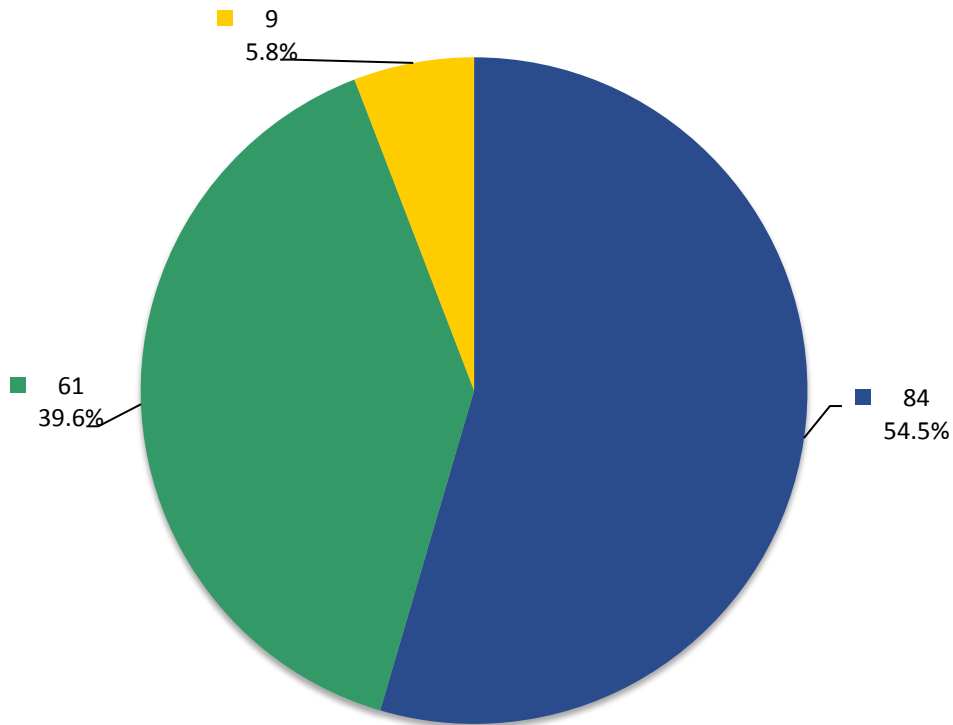
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| Actions Towards Carbon Neutrality | | | | | | |
|---|----------------------------|---|---|--|------------|--------------------------|
| The actions listed below contribute to a reduction in greenhouse gas emissions from sources for which public sector organizations are responsible under the carbon neutral government regulation of the <i>Greenhouse Gas Reduction Targets Act</i> . | | | | | | |
| 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) | | | | | | |
| Vehicle fuel efficiency | | | | | | |
| Replace vehicles with more fuel-efficient models | Ongoing/In Progress | 75 % of vehicles are fuel- efficient models | none | two more school bus replacements | 2008 | 2014 |
| Replace larger vehicles with smaller models according to fleet "right-sizing" principles | Ongoing/In Progress | 0 % of vehicles down-sized since start year indicated | none | review possibilities depending on vehicle use | 2011 | 2014 |
| Perform regular fleet maintenance specifically to improve fuel-efficiency | Ongoing/In Progress | 80 % of vehicles are subject to regular maintenance for fuel efficiency | none | replace vehicles as deficiencies warrant to upgrade | 2011 | 2014 |
| Replace small maintenance vehicles with more fuel-efficient models | Ongoing/In Progress | 0 % of small maintenance vehicles are fuel-efficient | none | replace vehicles as deficiencies warrant to upgrade | 2011 | No End Date (Continuous) |
| Behaviour change program | | | | | | |
| Provide fleet driver training to reduce fuel use | Ongoing/In Progress | 100 % of current drivers are trained | ongoing training and reminders to all drivers | continue driver awareness on fuel saving | 2011 | No End Date (Continuous) |
| Introduce anti-idling policy and/or raise anti-idling awareness for fleet drivers (e.g., signs, stickers, messages) | Ongoing/In Progress | 75 district staff | district anti-adling program | continue to work with local governments to introduce anti-adling by laws | 2011 | 2014 |
| Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings) | | | | | | |
| Appliances and electronic devices | | | | | | |
| Replace refrigerators with ENERGY STAR models or source ENERGY STAR models for future purchases | Ongoing/In Progress | 50 % of fridges are ENERGY STAR rated | replaced where needed | on-going | 2009 | No End Date (Continuous) |
| Replace other appliances or electronic devices with ENERGY STAR models or source ENERGY STAR models for future purchases | Ongoing/In Progress | 60 microwaves, etc. | replaced where needed | on-going | 2009 | No End Date (Continuous) |
| Behaviour change program | | | | | | |
| Help staff reduce personal energy use through "workstation tune-ups" | Ongoing/In Progress | 25 % of current staff have completed a workstation tune-up | energy awareness program | on-going | 2010 | 2014 |
| Ask staff to unplug electrical equipment or switch off power bars when not in use | In Development | | | continue with energy awareness program | 2010 | 2014 |
| Ask staff to close blinds at end of work day to reduce heating/cooling demands | In Development | | | continue with energy awareness program | 2011 | 2014 |
| Provide reminders for turning off lights (e.g., signs, stickers, messages) | In Development | | | continue with energy awareness program | 2011 | 2014 |
| Promote hot water conservation | In Development | | | continue with energy awareness program | 2011 | 2014 |
| Supplies (Paper) | | | | | | |
| Paper Type | | | | | | |
| Purchase 30% post-consumer recycled paper | In Development | | | evaluate availability in area / compatible with equipment | 2012 | No End Date (Continuous) |
| Purchase 40% post-consumer recycled paper | In Development | | | evaluate availability in area / compatible with equipment | 2013 | No End Date (Continuous) |
| Purchase 100% post-consumer recycled paper | In Development | | | evaluate availability in area / compatible with equipment | 2014 | No End Date (Continuous) |
| Printer/document settings | | | | | | |
| Switch networked printers and photocopiers to automatic double-sided | Completed in 2011 | 100 % of network printers or photocopiers are set to automatic double-sided | replaced equipment | | 2010 | 2012 |
| Apply "print and hold" settings to networked printers to eliminate unclaimed print jobs | Completed in 2011 | 100 % of network printers have "print and hold" settings applied | replaced equipment | | 2010 | 2012 |
| Reduce default margin size in standard document templates (e.g., letters, briefing notes, forms, etc.) | Completed in 2011 | 100 | replaced equipment | | 2010 | 2012 |
| Electronic media in place of paper | | | | | | |
| Install collaborative software for electronic editing (e.g. SharePoint, Groove, etc.) | Ongoing/In Progress | 50 % of staff workstations with software installed | software installed on all computers | staff training | 2011 | No End Date (Continuous) |
| Use electronic document library for filing common documents | Ongoing/In Progress | 25 | introduced in some departments | staff training | 2010 | No End Date (Continuous) |
| Post materials online that were previously printed | Ongoing/In Progress | 75 | staff awareness | staff training | 2010 | No End Date (Continuous) |
| Behaviour change program | | | | | | |
| Train staff to use collaborative software for electronic editing (e.g. SharePoint, Groove, etc.) | Ongoing/In Progress | 50 % of staff currently have received collaborative software training | staff awareness | staff training | 2011 | No End Date (Continuous) |
| Encourage staff to hold paperless meetings or presentations (i.e., no handouts) | Ongoing/In Progress | 50 | staff awareness | staff training | 2011 | No End Date (Continuous) |
| Encourage re-use of scrap paper | Ongoing/In Progress | 50 | staff awareness | staff training | 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 <i>Greenhouse Gas Reduction Targets Act</i> . 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 | | | | | | |
| Virtual meeting technology | | | | | | |
| Install web-conferencing software (e.g., Live Meeting,lluminate, etc.) | Ongoing/In Progress | 25 | % of computers have web-conferencing software installed | had first web cam meeting between communities | continue | 2011 No End Date (Continuous) |
| Make desktop web-cameras available to staff | In Development | 25 | % of staff have access to a desktop web-camera | | staff training | 2011 No End Date (Continuous) |
| Install video-conferencing units in meeting rooms or provide mobile video-conferencing units | Ongoing/In Progress | | | is now available in meeting rooms | continue | 2011 No End Date (Continuous) |
| Behaviour change program | | | | | | |
| Train staff in web-conferencing | In Development | 25 | % of staff are trained web-conferencing | | staff training | 2011 No End Date (Continuous) |
| Train staff in video-conferencing or provide technical support for video-conferencing set-up | Ongoing/In Progress | 30 | % of staff are trained in video-conferencing or have access to technical support | staff awareness | staff training | 2011 No End Date (Continuous) |
| Encourage carpooling to meetings | Ongoing/In Progress | | | policy development, provide school bus travel as alternate | continue | 2010 No End Date (Continuous) |
| Encourage alternative travel to meetings (e.g., bicycles, public transit, walking) | Ongoing/In Progress | | | provide school bus as alternate | continue | 2010 No End Date (Continuous) |
| Education, Awareness, and Engagement | | | | | | |
| Team-building | | | | | | |
| Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement | In Development | | | | establish a green team | 2011 2013 |
| Staff awareness/education | | | | | | |
| Provide education to staff about the conservation of water, energy, and raw materials | In Development | | | | staff awareness | 2011 No End Date (Continuous) |
| Provide green tips on staff website or in newsletters | In Development | | | | to begin awareness information | 2012 2014 |
| Provide sustainability education during new staff orientation | In Development | | | | to begin awareness information | 2012 2014 |
| Other Sustainability Actions | | | | | | |
| Waste reduction/diversion | | | | | | |
| Put in place an operations policy to facilitate the reduction and diversion of building occupant waste from landfills or incineration facilities | In Development | | | | interduction of recyle system | 2010 No End Date (Continuous) |
| Implement a hazardous waste reduction and disposal strategy | In Development | | | | interduction of recyle system | 2010 No End Date (Continuous) |
| Procurement (non-paper supplies) | | | | | | |
| Incorporate minimum recycled content standards into procurement policy for consumable, non-paper supplies (e.g., writing instruments, binders, toner cartridges, etc.) | Ongoing/In Progress | | | sending to recyle depot | continue | 2011 No End Date (Continuous) |
| Implement sustainable purchasing program for cleaning products, disposable paper products and trash bags | In Development | | | | evaluate cost and quality | 2012 No End Date (Continuous) |
| Indoor air quality | | | | | | |
| Enforce a scent-free policy (e.g., no strong perfumes, deodorants, etc.) | Ongoing/In Progress | | | control signs | policy devolepment | 2010 2014 |
| Commuting to and from home | | | | | | |
| Provide secure bicycle storage | Ongoing/In Progress | | | provided bicycle lock site | continue | 2009 No End Date (Continuous) |

**School District 92 - Nisga'a
Greenhouse Gas Emissions by Source
for the 2011 Calendar Year (tCO₂e*)**



Total Emissions: 155

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

Offsets Applied to Become Carbon Neutral in 2011 (Generated May 18, 2012 12:45 PM)

Total offsets required: **100**. Total offset investment: **\$2,500**. Emissions which do not require offsets: **55** **

*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.