Executive Summary

On behalf of Campbell River School District, I am pleased to submit the 2012 Carbon Neutral Action Report. This report provides an overview of the actions taken by our organization to reduce greenhouse gas emissions.

As evidenced by our Strategic Plan, an *"Expanded and Purposeful Environmental Ethic"* is integral to the objectives of Campbell River School District. The Environmental Responsibility Policy, adopted in 2009, articulates the Board of Education's expectations to consider environmental impacts in the delivery of curriculum and daily operations, and to integrate environmental education within the school setting. School District 72 Sustainability Guidelines and the School District 72 Strategic Energy Management Plan provide the structure to enable continuous improvement in our environmental stewardship.

Utilities required for the operation of buildings is the largest source of greenhouse gas emissions for School District 72. Energy retrofit projects in 2012 included upgrades to high efficiency condensing boilers, improvements to building controls and lighting retrofits. Compared to 2011, the energy reduction from these projects contributed to a 3.8% reduction of our organization's overall energy consumption per square meter.

Mobile consumption (fleet), largely due to school bus fleet operations, was 14.2% of total greenhouse gas emissions in 2012. Compared to 2011, the slight reduction in overall emissions from this source is attributed to lower maintenance standards of playing fields being somewhat offset by increases in service standards for bussing of students.

Office paper was responsible for 2.2% of greenhouse gas emissions in 2012. The increase in 2012 (relative to 2011) is attributed to cyclical purchasing by schools.

As a community leader in environmental sustainability, School District 72 maintains a number of partnerships. For example, we were nominated to the Community Energy Association, with the City of Campbell River, for a 2012 Climate & Energy Action Award for collaboration between the two organizations. Leveraging our energy manager contract with BC Hydro PowerSmart, workshops are routinely made available to students and teachers to build engagement towards sustainability. Most recently, School District 72 initiated a conversation with BC Hydro to identify and develop educational opportunities related to the replacement of the John Hart Dam. In short, the staff and students of School District 72 continue to display passion for their community and environment.

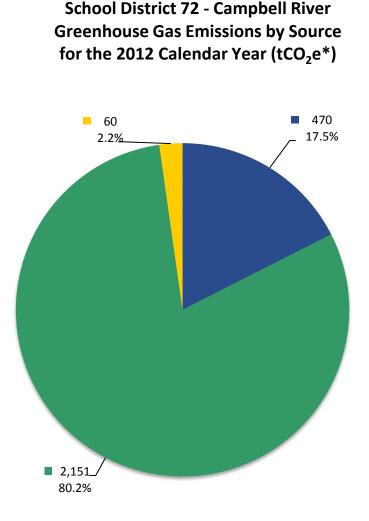
Tom Longridge Superintendent of Schools

| Action | Status | Steps Taken | Steps Planned | Start Year | End Year |
|--|-----------------------------------|---|---|------------|--|
| Nobile Fuel Combustion (Fleet and other) | | | | | |
| Behaviour change program | | | | | |
| Provide fleet driver training to reduce fuel use | Ongoing/In Progress | Fleet Driver Training is provided annually to all Bus Drivers and the Bus Drivers' Manual includes driving tips to reduce fuel consumption. Driver training is provided to all employees upon hiring. Annual refresher training on winter driving also promotes bneefits of fuel conservation. Monitoring of fuel consumption provides feedback on effectiveness of driver training. | Fleet Driver Training is provided annually to all Bus Drivers and the Bus Drivers' Manual includes driving tips to reduce fuel consumption. Driver training is provided to all employees upon hiring. Annual refresher training on winter driving also promotes bneefits of fuel conservation. Monitoring of fuel consumption provides feedback on effectiveness of driver training. | 2008 | 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 | The School District 72 Bus Driver Manual encourages drivers to avoid idling more than three minutes. Most school properties have "anti-idling" signage. School newsletters to parents periodically include "anti-idling" reminders. | The School District 72 Bus Driver Manual encourages drivers to avoid idling more than three minutes. Most school properties have "anti-idling" signage. School newsletters to parents periodically include "anti-idling" reminders. | 2008 | No End Date (Continuous) |
| Encourage carpooling in fleet vehicles | Ongoing/In Progress | Carpooling, when practicable for operational requirements, is a behavioural norm in School District 72. | Carpooling, when practicable for operational requirements, is a behavioural norm in School District 72. | 2008 | No End Date (Continuous) |
| Promote alternatives to fleet vehicle travel where possible (e.g., bicycles, public transit, walking) | Ongoing/In Progress | When practicable, water taxi or float plane are used as alternatives to fleet vehicles when travelling to outlying schools (Quadra Island, Cortes Island, Read Island). For other sites, however, requirement to carry tools, equipment and supplies precludes a cost-effective alternative to fleet vehicles. | When practicable, water taxi or float plane are used as alternatives to fleet vehicles when travelling to outlying schools (Quadra Island, Cortes Island, Read Island). For other sites, however, requirement to carry tools, equipment and supplies precludes a cost-effective alternative to fleet vehicles. | 2008 | No End Date (Continuous) |
| Other Mobile Fuel Combustion Actions | | | | | |
| Reduction in grasscutting frequency at former Evergreen school site, resulting in less use of tractor. | Completed (in Reporting Year) | Based on affordability of maintaining the playing field, grasscutting service at former Evergreen school site was reduced to minimal levels. Reduced demand for the lawnmower tractor is resulting in less carbon emissions. | | 2012 | No End Date (Continuous) |
| Vehicle fuel efficiency | | | | | |
| Replace vehicles with more fuel-efficient models | Ongoing/In Progress | Two maintenance vehicles replaced with newer models | No specific steps planned at this time. | 2008 | No End Date (Continuous) |
| Replace larger vehicles with smaller models according to fleet "right- sizing" principles | Ongoing/In Progress | Two maintenance vehicles replaced with newer models. Opportunities for "right-sizing" were considered. | No specific steps planned at this time. | 2008 | No End Date (Continuous) |
| Perform regular fleet maintenance to improve fuel-efficiency | Ongoing/In Progress | Vehicle maintenance is performed in accordance with manufacturers' recommendations and Commercial Vehicle Inspection Program (CVIP) regulatory requirements. Monitoring of fuel consumption provides feedback on effectiveness of maintenance program. | Vehicle maintenance is performed in accordance with manufacturers' recommendations and Commercial Vehicle Inspection Program (CVIP) regulatory requirements. Monitoring of fuel consumption provides feedback on effectiveness of maintenance program. | 2008 | No End Date (Continuous) |
| Stationary Fuel Combustion, Electricity | | | | | |
| Behaviour change program | | | | | |
| Help staff reduce personal energy use through ""workstation tune-ups"" | Ongoing/In Progress | Workstation tune-ups are managed centrally by IT staff, and performed after-hours using the computer network. | Workstation tune-ups are managed centrally by IT staff, and performed after-hours using the computer network. | 2008 | No End Date (Continuous) |
| Ask staff to unplug electrical equipment or switch off power bars when not in use | Ongoing/In Progress | All staff are encouraged to unplug electrical equipment when not in use. | All staff are encouraged to unplug electrical equipment when not in use. | 2008 | No End Date (Continuous) |
| Ask staff to unplug electrical equipment or switch off power bars when not in use Ask staff to close blinds at end of work day to reduce heating/cooling | Ongoing/In Progress Not Yet | All staff are encouraged to unplug electrical equipment when not in use. | All staff are encouraged to unplug electrical equipment when not in use. | 2008 | No End Date (Continuous) No End Date |
| demands | Evaluated | | | | (Continuous) |
| Encourage staff to use air dry setting on dishwashers | Ongoing/In | Where practicable, staff are encouraged to use air dry settings on | Where practicable, staff are encouraged to use air dry settings on | 2008 | No End Date |
| | | | | | |

| Action | Status | Steps Taken | Steps Planned | Start Year | End Year |
|---|------------------------|--|--|------------|-----------------------------|
| | Progress | dishwashers. | dishwashers. | | (Continuous) |
| Provide tips to staff on saving energy in the office while working outside | Ongoing/In | Through the use of Digital Direct Controls, energy use after hours is | Through the use of Digital Direct Controls, energy use after hours is | 2008 | No End Date |
| of regular business hours | Progress | minimized. Staff have little control over energy use outside of regular | minimized. Staff have little control over energy use outside of regular | | (Continuous) |
| | | business hours. | business hours. | | |
| Encourage use of stairs instead of elevators | Ongoing/In | Most School District No. 72 facilities are single story. Where | Most School District No. 72 facilities are single story. Where elevators | 2008 | No End Date |
| | Progress | elevators are required, use is restricted to wheelchairs and cartage. | are required, use is restricted to wheelchairs and cartage. | | (Continuous) |
| Provide reminders for turning off lights (e.g., signs, stickers, messages) | Ongoing/In | Most facilities use occupancy sensors. In isolated cases where | Most facilities use occupancy sensors. In isolated cases where | 2008 | No End Date |
| | Progress | occupancy sensors are not installed, stickers are provided by the light switch. | occupancy sensors are not installed, stickers are provided by the light switch. | | (Continuous) |
| Promote hot water conservation | Ongoing/In Progress | All staff are encouraged to conserve hot water. | All staff are encouraged to conserve hot water. | 2008 | No End Date (Continuous) |
| IT power management | | | | | |
| Install power management software which shuts down computers | Ongoing/In | School District No. 72 uses power management software to shut | School District No. 72 uses power management software to shut | 2008 | No End Date |
| outside of regular business hours | Progress | down computers outside of regular business hours. | down computers outside of regular business hours. | | (Continuous) |
| Implement server virtualization | Ongoing/In | Server virtualization is used throughout School District No. 72 | Server virtualization is used throughout School District No. 72 | 2008 | No End Date |
| | Progress | | | | (Continuous) |
| Apply auto-sleep settings on computer monitors and CPUs | Ongoing/In | Auto-sleep settings are applied on all computer monitors adn CPUs | Auto-sleep settings are applied on all computer monitors adn CPUs | 2008 | No End Date |
| | Progress | | | | (Continuous) |
| Remove stand-alone printers, copiers, and/or fax machines and install | Ongoing/In | Where feasible, stand-alone printers, copiers, and/or fax machines | Where feasible, stand-alone printers, copiers, and/or fax machines | 2008 | No End Date |
| multi-function devices as part of a print management strategy | Progress | have been removed. | have been removed. | | (Continuous) |
| Apply auto-sleep settings on printers, fax machines, and/or multi- | Ongoing/In | Auto-sleep settings are applied on all printers, fax machines, and/or | Auto-sleep settings are applied on all printers, fax machines, and/or | 2008 | No End Date |
| function devices | Progress | multi-function devices. | multi-function devices. | 2008 | (Continuous) No End Date |
| Replace computers with ENERGY STAR models during regular computer upgrades | Ongoing/In Progress | In cases where thin-clients are not practicable, computers are replaced with ENERGY STAR models during regular computer upgrades | In cases where thin-clients are not practicable, computers are replaced with ENERGY STAR models during regular computer upgrades | 2008 | (Continuous) |
| Other Stationary Fuel Combustion | | | | | |
| Conduct energy conservation workshops for staff and students | Completed (in | Three energy conservation workshops were held in 2012: | | 2012 | 2012 |
| | Reporting Year) | | | | |
| | | An initial meeting with BC Hydro to explore energy and environmental awareness opportunities related to the John Hart Dam construction project. Based on identified opportunities, further meetings are planned for 2013. | | | |
| Establish energy performance baseline for owned buildings | Ongoing/In | The School District 72 Energy Performance Baseline is documented | The School District 72 Energy Performance Baseline is documented | 2009 | No End Date |
| | Progress | in the Strategic Energy Management Plan. | in the Strategic Energy Management Plan. | | (Continuous) |

| Action | Status | Steps Taken | Steps Planned | Start Year | End Year |
|---|------------------------|---|--|------------|--------------------------|
| | | The Building Energy Performanace Baseline (BEPI) of 0.93 GJ(e) per square meter represents the 4-year average for the period 2005- 2008. For 2012, the weather normalized BEPI target was 0.89 GJ(e) per square meter. For 2011, the BEPI for School District No. 72 was 0.80 GJ(e) per square meter. For 2012, the BEPI for School District No. 72 was 0.77 GJ(e) per square meter. As a result of continuous improvements in energy efficiency, School District No. 72 has established a new energy performance baseline for 2013 of 0.87 GJ(e) per square meter; equivalent to 13.61 GJ(e) | The Building Energy Performanace Baseline (BEPI) of 0.93 GJ(e) per square meter represents the 4-year average for the period 2005-2008. For 2012, the weather normalized BEPI target was 0.89 GJ(e) per square meter. For 2011, the BEPI for School District No. 72 was 0.80 GJ(e) per square meter. For 2012, the BEPI for School District No. 72 was 0.77 GJ(e) per square meter. As a result of continuous improvements in energy efficiency, School District No. 72 has established a new energy performance baseline of 0.87 GJ(e) per square meter; equivalent to 13.61 GJ(e) per | | |
| | | per student FTE. | student FTE. | | |
| Register for performance labelling/certification for operations and naintenance of owned buildings (e.g., LEED EB:O&M) | Not Yet Evaluated | | | | No End Dat (Continuou |
| Register for performance labelling/certification for commercial interiors of | Not Yet | | | | No End Da |
| wned buildings (e.g., LEED CI) | Evaluated | | | | (Continuou |
| chieve LEED NC Gold certification at a minimum for new construction | Not Yet | | | | No End Da |
| r major renovations | Evaluated | | | 0011 | (Continuou |
| Perform energy retrofits on existing, owned buildings | Ongoing/In Progress | Project initiated in 2011 and completed in 2012 include re-lamping of 4 schools (477,000 KwHr/yr savings in electricity) and Timberline/NIC HVAC Upgrade - Phase 1 (1,678 GJ/yr savings in natural gas). Completed projects in 2012 included Replacement of 388 PCss with Thin Clients, Timberline/NIC HVAC Upgrade - Phase 2, replacement of 18 leased multifunction devices with new models, minor repairs to building envelopes to reduce air leakage. These projects have resulted in savings of approximately 38,700 KwHr/yr in electricity and 563 GJ/yr in natural gas. | In addition to completion projects initiated in 2012, projects planned for 2013 include interior re-lamping of four sites and exterior re- lamping of all sites (including parking lot lighting). Estimated energy savings for interior re-lamping is 46,000 KwHr/yr. | 2011 | 2013 |
| | Organization | Projects initiated in 2012 included re-lamping of 7 sites, Timberline/NIC HVAC Upgrade - Phase 3, on-site coordination for installation of two Electric Vehicle Charging Stations (by North Island College and City of Campbell River). Once completed in 2013, these projects will result in an overall energy reduction of 471,000 KwHr/yr in electricity and 114 GJ/yr in natural gas. | Defrigerent menogement is an integral part of provention | 2008 | No End D |
| ncorporate a refrigerant management strategy into regular building nanagement/maintenance to reduce fugitive emissions | Ongoing/In Progress | Refrigerant management is an integral part of preventive maintenance routines used by School District No. 72. | Refrigerant management is an integral part of preventive maintenance routines used by School District No. 72. | 2008 | No End Da (Continuou |
| Planning/management | | | | | |
| educe office space (square meters) per employee | Ongoing/In Progress | Two surplus portable classrooms, located at Ecole Willow Point, were sold in 2012. | Subject to the outcome of the School District 72 strategic plan update, a review of infrastructure requirements is planned. | 2008 | No End Da (Continuo |
| nstall a real time metering system (e.g. Pulse, Reliable Controls, Houle | Ongoing/In | The requirement for additional metering is included in the School District 72 Strategic Energy Management Plan. BC Hydro Smart | The requirement for additional metering is included in the School District 72 Strategic Energy Management Plan. BC Hydro Smart | 2008 | No End Da (Continuo |
| Controls) | Progress | Meters have been installed, but the user portal has not yet been activated. | Meters have been installed, but the user portal has not yet been activated. | | (|

| Action | Status | Steps Taken | Steps Planned | Start Year | End Year |
|--|------------|--|--|------------|--------------|
| Upgrade mechanical systems (heating, cooling, ventilation) during | Ongoing/In | Opportunities for mechanical system upgrades are considered when | Opportunities for mechanical system upgrades are considered when | 2008 | No End Date |
| retrofits | Progress | performing building renovations. | performing building renovations. | | (Continuous) |
| Upgrade lighting systems during retrofits | Ongoing/In | Opportunities for lighting system upgrades are considered when | Opportunities for lighting system upgrades are considered when | 2008 | No End Date |
| | Progress | performing building renovations. | performing building renovations. | | (Continuous) |
| Upgrade/adjust control systems during retrofits | Ongoing/In | Opportunities for lighting system upgrades are considered when | Opportunities for lighting system upgrades are considered when | 2008 | No End Date |
| | Progress | performing building renovations. | performing building renovations. | | (Continuous) |
| Improve building insulation (including windows) during retrofits | Ongoing/In | Opportunities for improving building insulation are considered when | Opportunities for improving building insulation are considered when | 2008 | No End Date |
| | Progress | performing building renovations. | performing building renovations. | | (Continuous) |
| Supplies (Paper) | | | | | |
| Behaviour change program | | | | | |
| Train staff to use collaborative software for electronic editing (e.g. | Ongoing/In | All school secretaries have received training in MS Sharepoint. | All school secretaries have received training in MS Sharepoint. | 2011 | No End Date |
| SharePoint, Groove, etc.) | Progress | | | | (Continuous) |
| Encourage staff to hold paperless meetings or presentations (i.e., no | Ongoing/In | All staff are encouraged to hold paperless meetings or presentations | All staff are encouraged to hold paperless meetings or presentations | 2010 | No End Date |
| handouts) | Progress | | | | (Continuous) |
| Electronic media in place of paper | | | | | |
| Install collaborative software for electronic editing (e.g. SharePoint, | Ongoing/In | School District No. 72 is transitioning to MS Sharepoint. | Complete transition to MS Sharepoint | 2011 | 2013 |
| Groove, etc.) | Progress | | | | |
| Use electronic document library for filing common documents | Ongoing/In | School District No. 72 is transitioning to MS Sharepoint. | Complete transition to MS Sharepoint | 2010 | 2013 |
| Quiteb to an electronic normall notification system in place of non-system | Progress | Cohool District No. 70 seven lated the transition to algorithmic neuroll | Cabaal District No. 70 secondated the transition to alectronic neuroll | 0014 | No Fred Date |
| Switch to an electronic payroll notification system in place of paper pay | Ongoing/In | School District No. 72 completed the transition to electronic payroll | School District No. 72 completed the transition to electronic payroll | 2011 | No End Date |
| stubs | Progress | notifications in 2011. | notifications in 2011. | | (Continuous) |
| Paper Type | | | | | |
| Purchase 30% post-consumer recycled paper | Ongoing/In | As budget allow, we encourage all sites to increase percentage of | As budget allow, we encourage all sites to increase percentage of | 2008 | No End Date |
| | Progress | post-consumer recycled paper. | post-consumer recycled paper. | 0000 | (Continuous) |
| Purchase 40% post-consumer recycled paper | Ongoing/In | As budget allow, we encourage all sites to increase percentage of | As budget allow, we encourage all sites to increase percentage of | 2008 | No End Date |
| | Progress | post-consumer recycled paper. | post-consumer recycled paper. | 0000 | (Continuous) |
| Purchase 100% post-consumer recycled paper | Ongoing/In | As budget allow, we encourage all sites to increase percentage of | As budget allow, we encourage all sites to increase percentage of | 2008 | No End Date |
| | Progress | post-consumer recycled paper. | post-consumer recycled paper. | | (Continuous) |
| Printer/document settings | Our start | | Million for the state of the second second to the dealer of the second sec | 0000 | |
| Switch networked printers and photocopiers to automatic double-sided | Ongoing/In | Where feasible, all sites are encouraged to use double-sided | Where feasible, all sites are encouraged to use double-sided | 2008 | No End Date |
| | Progress | printing. | printing. | | (Continuous) |



Total Emissions: 2,681

- 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 2012 (Generated May 31, 2013 12:07 PM)

Total offsets required: 2,300. Total offset investment: \$57,500. Emissions which do not require offsets: 381 **

*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.