

Fraser Health Authority - 2009 Carbon Neutral Action Report

Executive Summary

The Greenhouse Gas Reduction Target Act, passed in November 2007, tasked British Columbians to take solid actions to reduce provincial emissions. As part of the broader public sector, the BC Health Authorities are committed to being Carbon Neutral by 2010. The main objective for the Fraser Health Authority (FHA) has been to demonstrate leadership and commitment towards carbon neutrality whilst maintaining a healthy environment for our patients, staff and communities.

The large majority (over 90%) of the greenhouse gas (GHG) emissions at FHA come from our buildings in the form of direct fuel combustion (natural gas fired boiler plant) and indirect sources (electricity). As a result, Energy Management has been the key focus since 2008 when FHA employed a dedicated Energy Manager.

The FHA 2009 Carbon Neutral Action Report (CNAR) details our specific actions towards carbon neutrality by focusing on reducing greenhouse gas (GHG) emissions in the required areas of Mobile (fleet) Combustion, Stationary Fuel (buildings) Combustion, and Supplies (paper). It also demonstrates our commitment to improve sustainability and environmental performance by targeting GHG emissions from sources that fall outside of the mandatory reporting requirements, such as business travel, education, and water conservation.

Overviews

Actions Taken to Reduce Greenhouse Gas Emissions in 2009

The 2009 year has been a fundamental year for FHA and the organisation has made significant progress towards reducing GHG emissions. As mentioned in the executive summary, energy consumption represents the large majority of our GHG emissions and there have been numerous **energy conservation initiatives** completed in 2009. The noteworthy initiatives are detailed below:

- Completion of a Strategic Energy Management Plan (SEMP), including an Energy Management Policy and an overall objective to reduce energy intensity by 10% within five years.
- Employment of an Energy Coordinator.
- Completion of Twenty energy conservation projects resulting in an estimated annual reduction of 4,000,000 kWh of electricity savings and 13,000 GJ of natural gas savings (equivalent to 754 tCO₂e of GHG – approximate 2.3% reduction in the GHG footprint for FHA owned facilities).
- Over \$1 million of funding received via the Public Sector Energy Conservation Agreement (PSECA) Phase 2 for various energy projects.
- Delivery of an Energy Awareness Fair, with support from BC Hydro and Terasen Gas, at all main FHA sites.
- Agreements signed with BC Hydro for three sites to be included in their pilot Continuous Optimization program (C.O.p).
- Energy Management advice for the two Public Private Partnership Projects as part of the Surrey Capacity initiative, namely the Surrey Out Patient Care & Centre and the Surrey Memorial Hospital expansion.
- Notable progress achieved with our energy management business practices as determined by the second annual Energy Management Assessment (One-2-Five Energy Diagnostic session), as part of the BC Hydro Energy Manager program.

Other noteworthy **sustainability initiatives** completed in 2009 include:

- Leadership in Energy and Environmental Design New Construction (LEED NC) Gold certification received for the Abbotsford Regional Hospital (Second LEED NC gold certified building for FHA, following the award of Cottonwood Lodge in Coquitlam in 2007)
- Lease of five new fuel efficient fleet vehicles.
- Implementation of an electronic Record of Employment (ROE) system.

Operational Changes in 2009

There have been several operational changes during the 2009 year. The most significant is the consolidation of the Facilities Management (FM) departments within the Lower Mainland Health Authorities. The FM teams at FHA, Vancouver Coastal Health Authority (VCHA), Provincial Health Services Authority (PHSA) and Providence Health Care (PHC) are being amalgamated and as part of this consolidation a new Energy and Environmental Sustainability portfolio has been established. This will provide the Lower Mainland Health Authorities with a unique level of service excellence by sharing practices and collaboration to ensure that we are all fully committed as a team to become a recognized public sector leader in environmental sustainability. Responsibility for environmental reporting has been transferred from the Business Integration Support Services (BISS) department to the FM department.

Other operational changes have seen the BC Health Authorities Shared Services Organization (SSO) become responsible for delivering the Supply Chain services. There are also three initiatives underway related to Information Technology Services, including a Lower Mainland Technology Services Consolidation (FHA, VCHA, PHSA & PHC), a Desktop Management Services consolidation (SSO) and a Provincial Data Centre (SSO).

Plans to Continue Reducing Greenhouse Gas Emissions 2010 – 2012

The 2010 year is set to be a pivotal year with the consolidation of the Lower Mainland FM departments. As a result we will be united in our commitment to reduce GHG emissions and creating a cohesive culture of environmental sustainability.

The notable **energy conservation initiatives** planned for the next three years include:

- Implementation of the Strategic Energy Management Plan (SEMP).
- Completion of seven approved energy conservation projects in 2010 resulting in an estimated annual reduction of 600,000 kWh of electricity savings and 4,000 GJ of natural gas savings (equivalent to 216 tCO₂e of GHG).
- Continuation of energy studies and identification of inefficient energy practices to support the development of Business Cases for new energy conservation projects.
- Implementation of real time pulse revenue meters and energy management software at all FHA owned facilities as part of the BC Hydro campus wide Continuous Optimization program (C.O.p).
- Introduction of a dedicated Energy and Environmental Sustainability Web Page.
- Increased focus on an energy awareness behavioural campaign (part of the overall sustainability program – see other sustainability initiatives).
- Continuation of commitment to the BC Hydro Energy Manager Program and assessment process.
- Evaluation of the merit to register our existing buildings (owned and leased) onto the Leadership in Energy and Environmental Design Existing Building: Operation and Maintenance (LEED EB: O&M) program.
- Evaluation of innovative and renewable energy solutions.

Other notable **sustainability initiatives** planned for the next three years include:

- Development and Implementation of a Sustainability Strategic Plan including:
 - Energy Conservation
 - Water Conservation
 - Alternative Transportation

- Material Management
 - Waste Management
 - Behavioural Change Management
- Adoption of the PHSA Green + Leaders program to the FHA sites
 - Recruitment of 'green' volunteers
 - Formation of site 'green' teams
 - Focus on Sustainable Purchasing, Energy Management, Alternative Transportation and Waste Reduction
- Forming of partnerships with SSO to ensure sustainable practices are developed and implemented for the Supply Chain and Information Technology.
- Strive to achieve LEED NC Gold certification for all new construction in compliance with government policy.

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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)							
Vehicle fuel efficiency							
Replace vehicles with more fuel-efficient models	Ongoing/In Progress	12	% of vehicles are fuel- efficient models	Five new vehicles were leased in 2009 and they were selected primarily for their fuel efficiency ratings.	As agreements expire, new fuel efficient vehicles will be leased.	2009	No End Date (Continuous)
Perform regular fleet maintenance to improve fuel-efficiency	Ongoing/In Progress	100	% of vehicles are subject to regular maintenance for fuel efficiency	All fleet vehicles are subject to a maintenance regime as per manufacturers schedule.	Practice will continue.	2003	No End Date (Continuous)
Behaviour change program							
Introduce anti-idling policy and/or raise anti-idling awareness for fleet drivers (e.g., signs, stickers, messages)	Ongoing/In Progress	100	% of FH sites have posted anti-idling signage in loading dock areas	Ongoing awareness campaigns for fleet drivers.	Practice will continue.	2008	No End Date (Continuous)
Other Mobile Fuel Combustion Actions							
Consolidation of regular deliveries to and between FHA sites	Ongoing/In Progress	10	% of medical and misc equipment/supplies being delivered by Mail Couriers.	Increased the volume of non essential medical instruments and other misc supplies being delivered by the daily Mail Couriers	Practice will continue.	2008	No End Date (Continuous)
Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)							
Planning/management							
Reduce office space (square meters) per employee	In Development			Various non clinical Health Authority consolidation in progress.	Real Estate to review all leased space and reduce accordingly.	2009	No End Date (Continuous)
Install a real time metering system (e.g. Pulse, Reliable Controls, Houle Controls)	Ongoing/In Progress	75	% of buildings have a real time metering system installed	The majority of our owned facilities already have PML sub-meters and software. In 2009 we introduced real time pulse revenue meters at 3 FHA sites as part of the BC Hydro Continuous Optimization program (C.O.p)	PML sub-meter software to be upgraded and access available via the internet. In addition, an application will be submitted for the remaining FHA owned facilities to the BC Hydro C.O. campus wide program.	2003	2012
Owned buildings							
Establish energy performance baseline for owned buildings	Ongoing/In Progress	100	% of owned buildings have an established energy performance baseline	All owned buildings have a Building Energy Performance Index (BEPI) compared to the FHA average baseline for Acute and Extended Care/Residential facilities. These can be viewed in the FHA Strategic Energy Management Plan (SEMP).	BEPI to be updated annually and baselines to be adjusted in line with new construction and/or major renovations, plus significant energy baseload increases and decreases.	2008	No End Date (Continuous)
Achieve LEED NC Gold certification at a minimum for new construction or major renovations	Ongoing/In Progress	5	% of owned buildings are certified LEED NC Gold or LEED NC Platinum	Abbotsford Regional Hospital was awarded Gold certification	All new constructions or major renovations will be designed and built to LEED Gold standards.	2005	No End Date (Continuous)
Incorporate integrated design process into new construction or during renovations of owned buildings	In Development				To help achieve LEED Gold all new constructions and major renovations will go through the integrated design process.	2009	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
Complete energy retrofits on existing, owned buildings	Ongoing/In Progress	90	% of owned buildings have undergone energy retrofits since start year indicated	Various energy retrofits (detailed below) have been carried out in 2009 with Public Sector Energy Conservation Agreement (PSECA) funding, BC Hydro Incentive funding and internal Capital Improvement funding.	Energy retrofits to continue (detailed below) as identified through energy studies and inefficient practices.	2006	No End Date (Continuous)
Retrofitting owned buildings							
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	Ongoing/In Progress	10	% of retrofits (captured above) had heating, cooling, and ventilation systems upgrades	Boiler plant upgrades at Fraser Canyon Hospital (FCH), Ridge Meadows Hospital (RMH) & Queens Park Care Centre (QPCC). Ventilation upgrades at FCH, Delta Hospital (DH), Heritage Village (HV), Mission Memorial Hospital (MMH) and Peace Arch Hospital (PAH). Chiller plant upgrades at Eagle Ridge Hospital and MMH.	Ventilation upgrades to be completed at Burnaby Hospital (BH) and QPCC in 2010. Other sites to follow depending upon outcome of energy studies.	2003	No End Date (Continuous)
Upgrade lighting systems during retrofits	Ongoing/In Progress	60	% of retrofits (captured above) had lighting systems upgrades	Lighting retrofits completed at Royal Columbian Hospital (RCH), Surrey Memorial Hospital (SMH), Chilliwack General Hospital (CGH), BH, ERH, PAH & QPCC.	Lighting retrofits to be carried out at the remaining FHA sites, including external applications.	2005	No End Date (Continuous)
Upgrade/adjust control systems during retrofits	Ongoing/In Progress	18	% of retrofits (captured above) had control system upgrades or adjustments	Building Automated System (BAS) controls upgraded at BH, DH, FCH & QPCC.	As part of BC Hydro C.O. program all sites will go through a retro-commissioning program, which includes investigation of the BAS control systems and implementation of upgrades and adjustments if cost effective.	2003	No End Date (Continuous)
Improve building insulation (including windows) during retrofits	Ongoing/In Progress	2	% of retrofits (captured above) had insulation improvements	Window upgrades at BUH, CGH, MMH & PAH.	Further window upgrades to be carried out dependent on available funding.	2003	No End Date (Continuous)
Leased buildings							
Establish energy performance baseline for leased buildings	In Development				Performance energy baseline and indexes to be established upon consolidation of leased facilities.	2010	No End Date (Continuous)
Lease space in buildings with new construction performance labelling/certification (e.g., LEED NC)	In Development				FHA committed to leasing space in buildings which are certified as LEED Gold.	2009	No End Date (Continuous)
Develop a green lease policy that requires green features to conserve energy be included in all lease negotiations	In Development			No Green Leasing policy, but a Tenant Handbook which incorporates High Performance Building strategies, has been updated.	Discussions to take place with Real Estates to incorporate Green policy to the existing Tenant Handbook.	2010	No End Date (Continuous)
IT power management							
Install power management software which shuts down computers outside of regular business hours	In Development			Power Management software analysed by FHA IT department and various pilot programs reviewed within other BC Health Authorities.	Under review by Customer Technology & Service department of the BC health Authority Shared Services Organization (SSO).	2009	No End Date (Continuous)
Implement server virtualization	In Development			Data server virtualization study carried out.	Waiting for IT department to decide upon next course of action.	2009	No End Date (Continuous)
Apply auto-sleep settings on computer monitors and CPUs	Ongoing/In Progress	0	% of computers have auto-sleep settings applied	All monitors have auto-sleep settings.	CPUs auto-sleep application under review by Customer Technology & Service department of the BC health Authority Shared Services Organization (SSO).	2008	No End Date (Continuous)
Remove stand-alone printers, copiers, and/or fax machines and install multi-function devices	Ongoing/In Progress	10	% reduction in printers, copiers, and/or fax machines since start year indicated	No steps taken in 2009.	Will be reviewed when printer lease agreement comes up for renewal in 2012.	2008	No End Date (Continuous)
Apply auto-sleep settings on printers, copiers, fax machines, and/or multi-function devices	Ongoing/In Progress	95	% of devices have auto-sleep settings applied	All devices replaced in 2009 have the auto-sleep settings.	Practice to continue.	2008	No End Date (Continuous)

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Replace computers with ENERGY STAR models during regular computer upgrades	Ongoing/In Progress	100	% of computers are ENERGY STAR rated	All computers upgraded to Energy Star 4.0 compliant machines.	Practise will continue for all future upgrades.	2003	No End Date (Continuous)
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	All consumer grade refrigerators purchased in 2009 where energy star models unless there was a special requirement due to space limitations for example.	Practice to continue.	2007	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			All consumer grade appliances purchased in 2009 where energy star models unless there was a special requirement due to space limitations for example.	Practice to continue.	2007	No End Date (Continuous)
Replace desk lamp incandescent bulbs with compact fluorescent (CFL) bulbs or source more efficient desk lamps for future purchases	Ongoing/In Progress	90	% of desk lamps are Compact Fluorescent types	All desk lamp replaced during 2009 were replaced with CFL lights.	Practice to continue.	2007	No End Date (Continuous)
Behaviour change program							
Ask staff to unplug electrical equipment or switch off power bars when not in use	In Development			Energy behavioural campaign initiated via an Energy Awareness Fair, with BC Hydro and Terasen Gas booths displaying energy saving ideas and tips.	FHA Energy Management web page to be launched in 2010 with energy saving tips at work and at home. Plus regular energy awareness items to be featured in the FH News publications. Also considering the PHSA model for the Green + Leaders program and the VCHA on line incentive program.	2009	No End Date (Continuous)
Ask staff to close blinds at end of work day to reduce heating/cooling demands	In Development			Energy behavioural campaign initiated via an Energy Awareness Fair, with BC Hydro and Terasen Gas booths displaying energy saving ideas and tips.	FHA Energy Management web page to be launched in 2010 with energy saving tips at work and at home. Plus regular energy awareness items to be featured in the FH News publications. Also considering the PHSA model for the Green + Leaders program and the VCHA on line incentive program.	2009	No End Date (Continuous)
Provide tips to staff on saving energy in the office while working outside of regular business hours	In Development			Energy behavioural campaign initiated via an Energy Awareness Fair, with BC Hydro and Terasen Gas booths displaying energy saving ideas and tips.	FHA Energy Management web page to be launched in 2010 with energy saving tips at work and at home. Plus regular energy awareness items to be featured in the FH News publications. Also considering the PHSA model for the Green + Leaders program and the VCHA on line incentive program.	2009	No End Date (Continuous)
Encourage use of stairs instead of elevators	In Development			Energy behavioural campaign initiated via an Energy Awareness Fair, with BC Hydro and Terasen Gas booths displaying energy saving ideas and tips.	FHA Energy Management web page to be launched in 2010 with energy saving tips at work and at home. Plus regular energy awareness items to be featured in the FH News publications. Also considering the PHSA model for the Green + Leaders program and the VCHA on line incentive program.	2009	No End Date (Continuous)
Provide reminders for turning off lights (e.g., signs, stickers, messages)	In Development			Energy behavioural campaign initiated via an Energy Awareness Fair, with BC Hydro and Terasen Gas booths displaying energy saving ideas and tips.	FHA Energy Management web page to be launched in 2010 with energy saving tips at work and at home. Plus regular energy awareness items to be featured in the FH News publications. Also considering the PHSA model for the Green + Leaders program and the VCHA on line incentive program.	2009	No End Date (Continuous)
Promote hot water conservation	In Development			Energy behavioural campaign initiated via an Energy Awareness Fair, with BC Hydro and Terasen Gas booths displaying energy saving ideas and tips.	FHA Energy Management web page to be launched in 2010 with energy saving tips at work and at home. Plus regular energy awareness items to be featured in the FH News publications. Also considering the PHSA model for the Green + Leaders program and the VCHA on line incentive program.	2009	No End Date (Continuous)
Other Stationary Fuel Combustion and Electricity Actions							

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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
Strategic Energy Management Plan (SEMP) and Energy Policy Implementation	Ongoing/In Progress			SEMP drafted and approved in 2009, including an Energy Management policy (policy waiting for executive approval).	Implementation of the SEM in 2010.	2009	No End Date (Continuous)
Energy Management Assessment (EMA) as part of the BC Hydro Energy Managers program	Ongoing/In Progress	38	% increase in the International Benchmark Rating (IBR)	EMA session 2 carried out and five new elements identified to improve energy management.	Carry out appropriate tasks to complete the five new elements. EMA number 3 to be carried out in the fall.	2008	No End Date (Continuous)
Supplies (Paper)							
Paper Type							
Purchase 30% post-consumer recycled paper	Ongoing/In Progress	10	% of total paper purchased contains 30% recycled content	FHA in discussion with vendors on sustainable purchasing.	The BC Health Authority Shared Services Organization (SSO) are now responsible for paper purchasing and FHA will continue to work with the SSO to encourage sustainability purchasing.	2009	No End Date (Continuous)
Purchase 100% post-consumer recycled paper	Ongoing/In Progress	0	% of total paper purchased contains 100% recycled content	FHA in discussion with vendors on sustainable purchasing.	The BC Health Authority Shared Services Organization (SSO) are now responsible for paper purchasing and FHA will continue to work with the SSO to encourage sustainability purchasing.	2009	No End Date (Continuous)
Printer/document settings							
Switch networked printers and photocopiers to automatic double-sided	In Development			All new devices have the option for double-sided printing and staff are encouraged to use this option where feasible.	IT department will be evaluating the networked printers and identify which could be set to automatically default to double sided.	2009	No End Date (Continuous)
Reduce default margin size in standard document templates (e.g., letters, briefing notes, forms, etc.)	Ongoing/In Progress			Practise being encouraged at departmental level.	Will be promoted FHA wide for all common documents and forms.	2009	No End Date (Continuous)
Electronic media in place of paper							
Install collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	Ongoing/In Progress	100	% of staff workstations with software installed	Available to all staff at the discretion of the department manager.	Practise will continue. In addition, there is an initiative in place as part of the Lower Mainland Facilities Management (FM) consolidation, to enhance the use of a centralized web-based MS Sharepoint 2010 electronic editing.	2008	No End Date (Continuous)
Use electronic document library for filing common documents	Ongoing/In Progress			This practice is enabled and encouraged throughout FHA.	Practice will continue.	2008	No End Date (Continuous)
Post materials online that were previously printed	In Development				All stakeholders will be encouraged to increase their use of environmentally friendly e-mail bulletins, online videos, the web, the internet and social media to exchange information and to dialogue.	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			Training is provided on a request basis. No records available.	Driven by users and there are no formal plans to promote in the future.	2008	No End Date (Continuous)
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress			Practise encouraged throughout FHA	Tool to be developed as per PHSA Green + Leaders program and posted on website for the whole organization to use.	2008	No End Date (Continuous)
Encourage re-use of scrap paper	Ongoing/In Progress			Practise encouraged throughout FHA	This practice will continue to be encouraged and highlighted in future paper use/reduction strategies	2008	No End Date (Continuous)
Other Paper Supplies Actions							
Payroll has developed a Record of Employment (ROE) Web Submission Process	Complete	100	% of ROE information access electronically	ROE data is now sent directly to Service Canada and employees can access this information from the Service Canada Website		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 12/31/09)	Performance to Date (as of 12/31/09)		Steps Taken in 2009	Steps Planned for 2010 -2012	Start Year	End Year
Business Travel							
Virtual meeting technology							
Install web-conferencing software (e.g., Live Meeting, Elluminate, etc.)	In Development			Finished testing and Evaluation.	All PC will have access to Live Meeting by fall.	2009	2010
Install video-conferencing units in meeting rooms or provide mobile video-conferencing units	Ongoing/In Progress	10	% of meeting rooms have access to video-conferencing equipment	All Acute sites have video conferencing available either installed in meeting rooms or mobile units.	Plans to expand number of video conferencing units and exploring other technologies are underway.	2008	No End Date (Continuous)
Behaviour change program							
Train staff in web-conferencing	In Development				Training program to be announced.	2010	No End Date (Continuous)
Train staff in video-conferencing or provide technical support for video-conferencing set-up	Ongoing/In Progress	100	% of staff are trained in video-conferencing or have access to technical support	All staff have access to video conference rooms and technical support staff if required.	Practice will continue.	2009	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	In Development				Practise to be encouraged where feasible.	2010	No End Date (Continuous)
Encourage carpooling to meetings	Ongoing/In Progress			Practise encouraged throughout FHA.	As part of the Lower Mainland Facilities Management consolidation, FHA will be following the PHSA plan to incorporate Alternative Transportation sessions to promote behavioural change.	2008	No End Date (Continuous)
Encourage alternative travel to meetings (e.g., bicycles, public transit, walking)	Ongoing/In Progress			Practise encouraged throughout FHA where feasible.	As part of the Lower Mainland Facilities Management consolidation, FHA will be following the PHSA plan to incorporate Alternative Transportation sessions to promote behavioural change.	2008	No End Date (Continuous)
Education, Awareness, and Engagement							
Team-building							
Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement	In Development			Several GreenCare teams initiated at FHA & VCHA by the Business Integrated Support Services (BISS).	Lower Mainland consolidated approach to be confirmed using an established model, such as the Green + Leader program at PHSA.	2009	No End Date (Continuous)
Provide resources and/or dedicated staff to support teams	In Development				Volunteers to be recruited.	2010	No End Date (Continuous)
Staff Professional Development							
Support green professional development (e.g., workshops, conferences, training)	Ongoing/In Progress			A two day green building workshop facilitated by the Lighthouse Sustainable Building Centre was organized in conjunction with VCHA, for the Facilities Management (FM) staff on Sustainable Efficient Buildings. In addition the BC Hydro annual forum was well attended by FHA FM staff.	Practice to continue.	2009	No End Date (Continuous)
Staff awareness/education							

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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 staff about the conservation of water, energy, and raw materials	Ongoing/In Progress			Energy and water conservation awareness fair taken around all FHA main sites with BC Hydro and Terasen Gas booths.	Fairs to be an annual event.	2009	No End Date (Continuous)
Provide green tips on staff website or in newsletters	In Development				Energy Management website being designed complete with green tips. In addition regular articles will be published in the electronic FH News publication.	2010	No End Date (Continuous)
Client/public awareness/education							
Provide education to clients/public about the conservation of water, energy, and raw materials	Ongoing/In Progress			Energy and water conservation awareness fair taken around all FHA main sites with BC Hydro and Terasen Gas booths.	Fairs to be an annual event.	2009	No End Date (Continuous)
Provide green tips on client/public website or in newsletters	In Development				Energy Management website being designed complete with green tips. In addition regular articles will be published in the electronic FH News publication.	2010	No End Date (Continuous)
Other Sustainability Actions							
Water conservation							
Establish a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models	Ongoing/In Progress	50	% of low flow devices already installed within the owned facilities	Site water consumption data compiled.	Site water consumption data to be analysed, survey to be carried out and strategy to be implemented.	2005	No End Date (Continuous)
Put in place a potable water management strategy to reduce potable water demand of building-level uses such as cooling tower equipment, toilet fixtures, etc. and landscape features	In Development				Strategy to be completed and implemented.	2009	No End Date (Continuous)
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			Developed draft waste reduction targets.	Waste management strategy to be completed and rolled out for all Lower Mainland consolidated healthcare facilities.	2009	2011
Implement a hazardous waste reduction and disposal strategy	In Development			Site specific disposal processes are in place at most FHA sites.	Waste management strategy, including hazardous waste to be completed and rolled out for all Lower Mainland consolidated healthcare facilities.	2009	2011
Procurement (non-paper supplies)							
Implement sustainable purchasing program for cleaning products, disposable paper products and trash bags	In Development			Reference to sustainable purchasing for cleaning products included in Housekeeping Services RFP	Housekeeping services vendor will be encouraged to continue to expand the use of green cleaning products and to develop a sustainable purchasing policy.	2009	No End Date (Continuous)
Require a minimum purchase of sustainable, and organic food and beverages supplied by contracted food suppliers or caterers	In Development			FHA has requested that sustainability initiatives be included in new RFP's.	Plans to have sustainability initiatives weighted in new RFP's	2009	No End Date (Continuous)
Building construction, renovation, and leasing							
Incorporate lifecycle costing into new construction or renovations	In Development				Life Cycle costing to be introduced into the Business Case process.	2010	2010
Indoor air quality							
Enforce a scent-free policy (e.g., no strong perfumes, deodorants, etc.)	Complete	100	% of sites are scent free	Introduced Scent Free policy across FHA.		2009	No End Date (Continuous)

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Incorporate low volatile organic compounds (VOCs) standards into procurement policy for products such as paints, carpets, and furniture	In Development			No formal policy, but generally all Plant Services departments have adopted this action when purchasing products.	Formal policy to be created by FM and SSO.	2010	2011
Commuting to and from home							
Introduce telework/work from home policy	In Development			Telework pilot project involved 42 participants.	The pilot project will be evaluated and expanded upon if warranted	2009	No End Date (Continuous)
Encourage commuting by foot, bicycle, carpool or public transit	Ongoing/In Progress			Practised encouraged throughout FHA.	As part of the Lower Mainland Facilities Management consolidation, FHA will be following the PHSA plan to incorporate Alternative Transportation sessions to promote behavioural change.	2008	No End Date (Continuous)
Provide shower or locker facilities for staff/students who commute by foot or by bicycle	Complete	100	% of sites have locker room/showers available for staff	Locker rooms and showers are available to staff at all sites.		2005	2009
Provide secure bicycle storage	Ongoing/In Progress	60	% of acute hospitals now have secure bike cages	A standard for building new bike cages was developed and shared with the provincia parking group.	Budgets are in place to continue expanding the number of bike storage facilities across FHA.	2008	No End Date (Continuous)
Modify parking fees or parking availability for staff/students	In Development			Evaluating the model being used within VCHA and PHSA.	Plans to work closely with VCHA and PHSA in moving to a subsidized transit model for staff and students.	2009	No End Date (Continuous)
Other Sustainability Actions							
Held a Sustainable Purchasing workshop	Ongoing/In Progress	40	% of the personel from the Purchasing Department attended the workshop.	Buy Smart BC department of the Fraser Basin Council facilitated a workshop for FHA staff.	May look at holding similar workshops in conjunction with the SSO.	2009	No End Date (Continuous)