

NO: R146

COUNCIL DATE: July 27, 2009

REGULAR COUNCIL

TO: **Mayor & Council**

DATE: **July 21, 2009**

FROM: **Deputy City Manager
Manager, Sustainability**

FILE: **0512-02**

SUBJECT: **Sustainability Charter Implementation Update**

RECOMMENDATION

The City Manager's Office recommends that Council receive this report as information.

INTENT

The purpose of this report is to advise Council of the status of actions related to the recommendations in the City's Sustainability Charter including the activities that will be undertaken before the end of 2009.

BACKGROUND

On October 30, 2006, Council received Corporate Report No. R227, entitled "Development of a Sustainability Charter" and directed staff, in conjunction with the Environmental Advisory Committee ("EAC"), to proceed with a three-phased process to develop the Charter with public input:

- Phase I – Definition of Sustainability and Charter Scope;
- Phase II – Development of Sustainability Charter/Implementation Elements; and
- Phase III – Development of an Implementation Strategy.

On September 29, 2008, Council received Corporate Report No. R175, which summarized the results of Phase II of that process and included a proposed Sustainability Charter. At that meeting, Council approved the Sustainability Charter.

The Surrey Sustainability Charter defines sustainability as: "*. . . meeting the needs of the present generation in terms of the socio-cultural systems, the economy and the environment, while promoting a high quality of life but without compromising the ability of future generations to meet their own needs*". The Charter sets out a Vision for sustainability that is supported by high-level and specific Goals, and an Action Framework for addressing sustainability issues. The Framework includes:

Three Pillars of Sustainability:

- Socio-cultural
- Economic
- Environmental

Three Spheres of Influence:

- Corporate Operations
- Municipal Jurisdiction
- Influencing External Organizations

Three Timelines for Implementation:

- Immediate/Short-term
- Medium-term
- Long-term

Supporting the Charter is the Scope of Sustainability, which contains 57 action items (Appendix I). The Scope of the Charter identifies the range of sustainability issues that will be addressed by the City over time, and provides details on these issues. Intended to be a living document developed in consultation with the community, the Scope can be amended from time to time by Council resolution. The Charter identifies over 30 Immediate Actions that are either now underway or will proceed shortly.

DISCUSSION

In April 2009, the Manager, Sustainability was hired, fulfilling Action G₁ of the Charter. The Manager's role is to act as a catalyst for sustainability throughout the corporation, and work with City staff to maintain a strong focus on sustainability within the City.

The Manager, Sustainability has been tracking progress in implementing the Charter's Immediate Actions (see attached Appendix II – "*Status of Immediate Actions at July 20, 2009*"). Some of these Actions have been completed, such as the Economic Development Strategy and Employment Land Strategy (Action EC₂) and the Community Resources map to raise awareness of accessible and appropriately located services within the City (Action SC₆). Other Actions are in progress, such as continued operation of the Harvest Box program and development of a fleet management plan. While all of the Actions in the Sustainability Charter are being tracked and many are being implemented, only the Immediate Actions are highlighted in the attachment, as these were prioritized for early results.

A Sustainability Office work plan has been developed through to the end of 2009 and three tasks are highlighted here:

1. Establishment of an Internal City "Sustainability Team"

Given that implementation of the Sustainability Charter will require a significant degree of staff involvement and high level of inter-departmental cooperation and coordination, a Sustainability Team from across Departments has been brought together with an initial meeting held June 16, 2009. The Team will meet regularly to share information and coordinate activities around sustainability across the City.

2. Completion of a Corporate Energy and Greenhouse Gas Emissions Inventory & Plan

In 2007, the City of Surrey became a signatory to the BC Climate Action Charter. Signatories to the Climate Action Charter have agreed to develop strategies and take actions to achieve the following goals:

1. Carbon neutrality in respect of their internal operations by 2012;
2. Measuring and reporting on their community's greenhouse gas emissions profile; and
3. Creating complete, compact, more energy efficient communities.

To fulfill the first goal of becoming carbon neutral in the City's operations by 2012, staff is compiling a baseline inventory of the City's energy use and greenhouse gas (GHG) emissions. Energy use in this sense focuses on the City's fossil fuel consumption, particularly natural gas, electricity, propane and fuel. This inventory will also fulfil the Sustainability Charter's commitment to initiate actions in support of the Climate Change Action Plan (Action EN11).

Staff is working with the Pembina Institute, a respected non-profit organization focused on sustainable energy solutions, to develop the inventory by the end of August. The inventory will produce a baseline and likely one to two years of additional data on energy use and GHG emissions. Using a facilitated workshop process and the Pembina Institute's "Cool Tool", this effort will also increase internal awareness of energy use and GHG emissions issues, and build internal capacity to track this type of information in the long-term. A summer student has been retained to assist with data collection and input.

At a second workshop with the Pembina Institute to be held in August, staff will begin to develop a list of immediate and critical initiatives to reduce corporate emissions; these will be brought forward early enough for consideration in the 2010 budget process. A more complete Corporate Energy and Emissions Plan will then be developed over the fall that will propose detailed emission reduction targets for the City, and flesh out and prioritize actions to meet the goal of carbon neutral operations by 2012.

It is important to note that Surrey, like all other local governments, which have signed the voluntary Climate Action Charter, will not be able to reduce GHG emissions to zero by 2012. Those emissions that cannot be reduced by 2012 will need to be offset through the purchase of carbon credits. While the mechanism for, and cost of these offsets have not yet been defined, the focus in the next three years should be on **reducing** Surrey's corporate emissions as much as possible in accordance with a "triple bottom line" approach. The more efficient the City is at reducing corporate emissions now, the lower the cost of offsets will be after 2012.

Related to the City's corporate emissions plan is the establishment of targets to reduce community-wide greenhouse gas emissions. Following on the requirements of Bill 27, the *Local Government (Green Communities) Statutes Amendment Act*, emission reduction targets and actions to achieve these targets will be required in Official Community Plans by May 31, 2010. This item is being brought forward to Council under a separate Corporate Report.

3. Initiation of the Indicators & Targets Task Force

Also critical in the coming months will be the establishment of a Task Force on Indicators and Targets (Action G2). The Task Force will define key indicators to measure progress towards achieving the City's sustainability vision. It will establish baseline values for these indicators identify appropriate targets and define a monitoring program for the Charter.

Task Force membership will include participants from the Sustainability Charter development process, drawn from the community and key interest groups, as well as membership from pertinent City Advisory Committees. The Task Force will be broken down into three sub-committees to focus on the socio-cultural, economic and environmental indicators and all members will be able review and comment on the complete list of indicators and targets. Opportunities for public review and input will also be provided and may be coordinated with the Official Community Plan Update.

CONCLUSION

Sustainability Charter implementation is well underway. Priorities have been established with key action items such as deliverables around corporate energy use and emissions, and the selection of indicators to monitor progress well underway. An annual report on the Sustainability Charter will be forwarded to Council in January 2010, as part of the commitment to regular reporting and communication.

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Appendix I Complete List of Scope Actions from the Sustainability Charter
Appendix II Status of Immediate Actions at July 20, 2009

Appendix I

Complete List of Scope Actions from the Sustainability Charter

SCOPE FOR ACHIEVING ALL THREE PILLARS OF SUSTAINABILITY

- G1 Establish a Sustainability Office
- G2 Measure progress using targets and indicators

SCOPE FOR ACHIEVING SOCIAL SUSTAINABILITY

- SC1 Personnel Policies and Staff Training
- SC2 Cultural Awareness in the Workplace
- SC3 Sustainable Procurement Policies
- SC4 Cultural Awareness in the Community
- SC5 Plan for the Social Well Being of Surrey Residents
- SC6 Accessible and appropriately located services within the City
- SC7 Participation in Leisure Programs
- SC8 Municipal Outreach, Public Education and Awareness
- SC9 Adequate, Appropriate and Affordable Housing
- SC10 Historical and Heritage Assets
- SC11 Public Safety and Security
- SC12 Adapting to Demographic Change
- SC13 Create a Fully Accessible City
- SC14 Support Food Security
- SC15 Literacy, Education and Training
- SC16 Socio-cultural Infrastructure and Services
- SC17 Crime Reduction Strategies
- SC18 Community Economic Development
- SC19 Equity in Social Infrastructure Investments
- SC20 Coordination with Local Educators on Sustainability

SCOPE FOR ACHIEVING ECONOMIC SUSTAINABILITY

- EC1 Corporate Economic Sustainability
- EC2 Economic Development Strategy and an Employment Land Strategy
- EC3 Sustainable Infrastructure Maintenance and Replacement
- EC4 Sustainable Fiscal Management Practices
- EC5 "Green" Infrastructure and Sustainability Grants
- EC6 Sustainable Practices through Business Licensing Operational Requirements
- EC7 Sustainable Building and Development Practices
- EC8 Energy Security

- EC9 Quality of Design in New Development and Redevelopment
- EC10 Green Technology Development and Businesses
- EC11 Surrey's Employment Land Base
- EC12 Surrey's Agricultural Land Base
- EC13 Municipal Finance Reform
- EC14 Taxation Policies and Financial Incentives
- EC15 Building/Energy Codes and Standards
- EC16 Increased Transit to Support a Sustainable Economy
- EC17 Educating the Workforce

SCOPE FOR ACHIEVING ENVIRONMENTAL SUSTAINABILITY

- EN1 Energy Efficiency
- EN2 Waste Reduction
- EN3 Vehicle Fleet Programs
- EN4 Employee Trip Reduction Program
- EN5 Green Procurement Policies and Practices
- EN6 Enhancement and Expansion of the Nature Matters Program
- EN7 Implement and Publicize Green Infrastructure Pilot Projects
- EN8 Sustainable Engineering Standards and Practices
- EN9 Sustainable Land Use Planning and Development Practices
- EN10 Integrated Community Energy Master Plans
- EN11 Surrey's Commitment to the Climate Change Action Plan
- EN12 Enhancement and Protection of Natural Areas, Fish Habitat and Wildlife Habitat
- EN13 Enhancing the Public Realm
- EN14 Public Education and the Sharing of Information
- EN15 Sustainable Transportation Options
- EN16 Land, Water and Air Quality Management
- EN17 Enhance Biodiversity

Appendix II

STATUS OF IMMEDIATE ACTIONS – July 20, 2009

The City of Surrey is proceeding with a number of immediate actions to advance the Vision and Goals set out in the Sustainability Charter:

Charter Ref	Action	Status	Person Responsible
G1	<p><i>Establish a Sustainability Office</i> City Council has approved a budget for the establishment of a Sustainability Office, which will oversee the implementation of the Charter. Staff from all City departments will provide support to the Sustainability Manager, who will act as a catalyst for sustainability throughout the corporation, and maintain a strong focus on sustainability within the</p>	<p>Manager hired April 2009. Cross-Departmental Sustainability Team established.</p>	<p>Lead Department: City Manager's (Sustainability)</p>
G2	<p><i>Establish a Sustainability Indicators Task Force</i> A Task Force (will be) set up to define key indicators and targets to achieve the Charter's goals, to establish baseline values for these indicators and to define a monitoring program for the Charter's implementation Strategy.</p>	<p>Preliminary research has been completed on common sustainability indicators, methods for establishing targets and tools for data monitoring and reporting. Task Force to be established including sub-set of Sustainability Team as well as external community members.</p>	<p>Lead Department: City Manager's (Sustainability) Supporting Departments: Engineering, P&D</p>
SC2	<p><i>Enhance Cultural Awareness in the Workplace</i> The City will continue to enhance the program of cultural awareness events, including the celebration of key multi-cultural holidays and festivals.</p>	<p>Celebrations held in 2009 for Lunar New Year, Black History Month, Easter, Vaisakhi, National Aboriginal Day. Five additional events are planned for 2009. Full program of cultural awareness events developed with support of MAC. Opportunity to expand being identified. CLS and HR lead cultural awareness events internally and city-wide.</p>	<p>Lead Departments: PRC, HR</p>
SC4	<p><i>Enhance Cultural Awareness in the Community</i> Surrey's first Fusion Festival was a recent example of the City's role in celebrating our cultural diversity. Under the</p>	<p>Successful second annual 2009 Fusion Festival event complete.</p>	<p>Lead Department: PRC Supporting Departments: Engineering, P&D</p>

Charter Ref	Action	Status	Person Responsible
	<p>auspices of the “Cultural Capital of Canada” program, the “Catalysts, Connections and Intersections” will support six public art projects that explore Surrey’s natural and built heritage, cultural diversity and First Nations history.</p>	<p>Work underway on Catalysts, Connections and Intersections projects including an Open House at Surrey Art Gallery.</p> <p>CLS has intercultural diversity program including a coordinator (currently on mat leave).</p> <p>Work has begun with MAC on identifying ways to increase cultural diversity and sustainability awareness on all Fest Committee applications.</p>	
<p>SC5</p>	<p><i>Improve the Social Well Being of Surrey Residents</i> Surrey is working with the Surrey School District on an expanded StrongStart Program, Community Kitchens and the Healthiest Babies Possible Program.</p>	<p>Programs underway.</p> <p>Based on the Social Well-Being Plan for Surrey, the Community School Partnership program is creating neighbourhood places that will integrate the needs of all ages and communities, working with guidance from an Advisory and Steering Committee. Currently there are 17 schools in School District 36 participating in the Community Partnership program (15 elementary and 2 high schools).</p> <p>Working on Inclusivity and welcoming programs for new immigrants.</p> <p>Kensington Prairie School is being redeveloped as a heritage and community hub for child care, after-school programs, and other programs.</p> <p>Early Childhood Partnership Committee (including overview of First Steps, Strong Start, daycare programs, etc) operates with participation from the City, School District, Fraser Health, MCF and United Way.</p>	<p>Lead Department: PRC Supporting Departments: P&D</p>
<p>SC6</p>	<p><i>Raise Awareness of Accessible and Appropriately Located Services within the City</i></p>	<p>Map has been completed and is on social planning website.</p>	<p>Lead Department: P&D Social planning</p>

Charter Ref	Action	Status	Person Responsible
	A Community Resources map, describing and identifying the location of local social services is being launched on the City's web site.		
SC7	<p><i>Expand Participation in Leisure Programs</i> The City is increasing the number of free and low cost offerings of leisure programs under the “Everyone Gets to Play” initiative, and is expanding the youth and children Leisure Access Program in inner city schools.</p>	<p>Programs are underway.</p> <p>Leisure Access Program (LAP) is in place; if low income, can apply for low cost family access pass to facilities and programs. Program now also helping newcomers to the community and at-risk youth. Program is periodically reviewed. Many after-school programs also operate and no or low-cost to families.</p>	Lead Department: PRC
SC9	<p><i>Increase the Supply of Adequate, Appropriate and Affordable Housing</i> A Housing Action Plan is currently being prepared, which will set appropriate housing targets for the full range of housing needs for different household types, incomes and needs and identify strategies and mechanisms for the implementation of the Plan.</p>	Initial research has been conducted and a Housing Action Plan is being developed with focus on non-market and market rental housing.	Lead Department: P&D
SC11	<p><i>Improve Public Safety and Security</i> The City is continuing to implement recommendations of the Surrey Crime Reduction Strategy. Immediate Actions under the Strategy include:</p> <ul style="list-style-type: none"> • The introduction of 10 Community Safety Officers (CSO) in Surrey. CSOs are unarmed peace officers, working under the general supervision of a regular RCMP member, who will engage the community in crime prevention measures and crime reduction programs. • A website focused on providing the community with information on how to reduce the risk of being victimized through crime. • Partnership with the Surrey School District, RCMP and others on tools to identify youth 	Community Safety Officers have been trained and deployed; Crime reduction site (www.crimereduction.surrey.ca) is operational; assessment tool for at-risk youth has been developed and applied to deter involvement in gangs; and paint voucher scheme is in place.	Lead Department: City Manager's (Crime Reduction Coordinator) Supporting Departments: RCMP

Charter Ref	Action	Status	Person Responsible
	<p>most at risk of becoming involved in gang related activities.</p> <ul style="list-style-type: none"> • A ‘voucher scheme’ will provide discounted paint to those victimized by graffiti and support for the painting of murals at high profile locations. 		
SC13	<p><i>Create a Fully Accessible City</i> The City, in partnership with the Surrey Association for Community Living, is using grant funding under the “Measuring Up” initiative and the 10 by 10 Challenge program to address community accessibility and inclusion.</p>	<p>Measuring Up Report was been developed in October 2008 using grant funding, and lists 14 strategies for Steering Committee follow up. The accessibility of facilities and parks is being reviewed.</p> <p>An inter-departmental Accessibility team has been formed to develop comprehensive policies for the Official Community Plan update, including direction from Measuring Up, the Transportation Strategy, the Plan for Social Well Being, and the Charter.</p> <p>The City is planning to add a national accessibility day to city celebrations.</p>	<p>Lead Department: PRC Supporting Depts: P&D, HR</p>
SC14	<p><i>Support Food Security</i> The Harvest Box program provides access to healthy, low cost, local produce, through the City’s Parks, Recreation and Culture facilities.</p>	<p>Harvest Box distribution program providing local produce to low-income residents is underway through COS Recreation Centres. COS supports this program via PRC staff and using the Centres as distribution points for the monthly produce bins.</p> <p>Internally, CLS has healthy eating guidelines and promotes healthy food choices at events and in vending machines. They are exploring educational awareness ideas around food and healthy eating.</p> <p>The City is working with the Fraser Valley Food Network/Food Action Coalition, a community-based group who is promoting a food policy for Surrey and White Rock.</p>	<p>Lead Department: PRC Supporting Departments: P&D</p>

<p>SC15</p>	<p><i>Promote Literacy, Education and Training</i> The Mayor's Task Force on Literacy and Early Childhood is focused on enhancing literacy skills and lifelong learning in Surrey. The Surrey Public Library is expanding programs that build community capacity in the area of early literacy with programs to teach parents to build pre-reading skills with preschoolers and programs to provide skills and resource kits to daycare providers to improve the story time experience for children in daycare.</p> <p>The City will also expand programs and opportunities that support early literacy through continued collaborative partnerships, including the First Steps project and Community Care Licensing of CLS preschool programs.</p>	<p>“Learning for Life Strategy” Report of the Mayor’s Task Force on Literacy and Early Childhood Development completed October 2008, and follow up taking place on its recommendations.</p> <p>Community Literacy & Essential Skills Plan for Surrey and White Rock was also developed by the broader community in February 2009; it includes an action plan.</p>	<p>Lead Departments: Library, PRC Supporting Departments: P&D</p>
<p>EC2</p>	<p><i>Complete an Economic Development Strategy and an Employment Land Strategy</i> The City has developed an Employment Land Strategy to define a strategic vision for Surrey’s employment lands, and an Economic Development Strategy to expand and diversify employment opportunities and high value jobs in Surrey while strengthening Surrey’s dual roles as a vibrant urban economy and a centre of agricultural production.</p>	<p>Completed and being implemented.</p>	<p>Lead Department: City Manager’s (Economic Development) Supporting Departments: P&D</p>
<p>EC3</p>	<p><i>Initiate a Sustainable Infrastructure Maintenance and Replacement Program</i> The City is developing Asset Management Programs that will assist in managing the City’s investment in capital assets and identify the financial resources required to sustain and replace those assets over time. Initially, the City will undertake a valuation exercise to determine the worth of City assets to be maintained using the Public Sector Accounting Board (PSAB) practices.</p>	<p>Capital Asset Management Program Application (CAMP) is being developed and will be operational by 2010. This is a financial exercise mandated by Public Sector Accounting Board (PSAB) and will help us better track city assets as well as their replacement cost and timeframe for replacement. Reporting on the condition of those assets will still rest with individual depts.</p>	<p>Lead Department: Finance Supporting Departments: Engineering, P&D (Facilities), PRC</p>
<p>EC5</p>	<p><i>Apply for "Green" Infrastructure and Sustainability Grant Funding</i> The Fergus Creek Integrated Storm Water Plan was awarded a Local Government Infrastructure Planning Study Grant. The Fergus Creek study is proposing green infrastructure, which includes leading edge innovations to be applied to development sites within the Fergus Creek drainage basin.</p>	<p>Fergus Creek ISMP underway.</p>	<p>Lead Department: Engineering</p>

<p>EC7</p>	<p><i>Promote Sustainable Building and Development Practices</i> The City has held workshops regarding sustainable development practices with the building industry, and will create and distribute brochures on sustainable building and development practices, beginning with information on the potential to use geo-exchange energy for the heating and cooling of buildings.</p>	<p>“Sustainability and You” brochure series has been developed and a draft geo-exchange brochure was completed. Sustainable Development Checklists are being developed to promote low impact developments and community plans.</p> <p>Green Building Information Centre (kiosk) is being developed, with materials and brochures to be available for those visiting City Hall. Display and related website page to be developed in conjunction with P&D.</p>	<p>Lead Department: P&D Supporting Departments: City Manager’s PRC, Engineering</p>
<p>EC8</p>	<p><i>Increase Energy Security through District Energy facilities</i> The City has entered into a Memorandum of Understanding with BC Hydro to conduct an Integrated Energy Master Plan for the Semiahmoo Town Centre. The partners will work with area landowners to explore district heating options, promote high performance buildings and energy efficiency, reduce the use of electricity and maximize the use of alternative energy sources.</p> <p>The City has adopted an interim density bonusing policy for Guildford and the City Centre, which provides for the integration of “above code” energy efficiency and alternative energy measures into building design to qualify as part of the community benefit associated with granting higher density to individual development projects.</p> <p>The City Centre Plan Update will provide higher density, transit-oriented development patterns that will minimize the energy used for travel and will support potential future district heating networks.</p>	<p>Integrated Energy Master Plan for the Semiahmoo Town Centre completed Phase 1 but did not go forward.</p> <p>Revisions to density bonusing policy have been made to include energy efficiency as a qualifying amenity. The bonusing policy is temporarily being waived in economic zones in support of the City’s economic action plan.</p> <p>Stage I of City Centre Plan Update is nearing completion. A Community Energy Plan was developed to identify potential policy directions for City Centre Plan.</p> <p>The City has been awarded a Community Action on Energy and Emissions (CAEE) Gold grant for a technical feasibility and business case study for DE in City Centre and an RFP is being developed for this study..</p>	<p>Lead Department: P&D Supporting Departments: Engineering</p>
<p>EC9</p>	<p><i>Improve the Quality of Design in New Development and Redevelopment</i> Design Guidelines are being developed for the Semiahmoo Town Centre, Grandview Heights and the City Centre, which incorporate a high quality public realm, support the concepts of “place-making”, encourage the implementation of green infrastructure and building technologies and support for walking, cycling and public transit.</p>	<p>Draft design guidelines complete for Semiahmoo, Grandview and work underway for City Centre. Place-making study underway for Grandview Heights.</p>	<p>Lead Department: P&D Supporting Departments: PRC and Engineering (Beautification Coordinator)</p>

EC10	<p>Research Opportunities for Green Technology Development and Businesses</p> <p>The City has retained a consultant to study the potential for eco-industrial infrastructure in a local business/industrial park setting.</p>	Eco-industrial study is currently on hold but consultant had been retained (Eco-Industrial Solutions).	Lead Department: P&D Supporting Departments: Engineering
EC12	<p>Enhance and Promote Surrey's Agricultural Land Base</p> <p>Events such as farmers markets, annual farm tours and the "Flavours of Surrey" food festival will increase awareness of Surrey's agricultural base and encourage residents to "buy local".</p> <p>The Nature Matters Program promotes the importance of local agriculture to the community through educational campaigns, such as road signage, brochure development and participation in community events.</p>	<p>2nd Annual Flavours of Surrey to be held July 26, 2009.</p> <p>Engineering and Communications/Marketing have developed a "Farm Fresh" brochure listing local farm businesses.</p>	Lead Department: P&D Supporting Departments: Engineering
EC16	<p>Increase Transit and Transportation to Support a Sustainable Economy</p> <p>The City is completing an updated Transportation Strategy that supports higher density and mixed land uses, and supports a significantly higher modal shares for walking, cycling and transit in an effort to reduce congestion, green house gases and energy usage while creating a street network that supports efficient goods movement.</p>	Transportation Strategic Plan was completed and adopted by Council in 2008. Cycling and Walking Plans are now being updated and consultation process is underway.	Lead Department: Engineering Supporting Departments: P&D
EC17	<p>Educate Surrey's Workforce</p> <p>The City of Surrey has entered into a Memorandum of Understanding with SFU Surrey with the intent of partnering toward facilitating the construction of new facilities to accommodate a growing student population.</p>	City staff is working with SFU Surrey and Kwantlen Polytechnical University staff on the planning of future facilities.	Lead Department: P&D
EN3	<p>Introduce a Green Vehicle Fleet Program</p> <p>The City is developing a fleet management plan to "right size" vehicles, reduce fuel consumption and reduce green house gas emissions.</p>	<p>Fleet management plan (State of the Fleet report) is in development and will be brought to Council later this year.</p> <p>Surrey is seeking E-3 Bronze Fleet certification through the Fraser Basin Council's GreenFleets BC program by the end of 2009. First step is completion of a fleet inventory including fuel consumption and GHG emissions (for yrs 2005, 2006 and 2007) which will be completed this summer.</p>	Lead Department: Engineering

		<p>An anti-idling policy is in place and biodiesel is in use.</p> <p>Currently three fleet vehicles are hybrid cars for the use of bylaw enforcement officers.</p>	
EN4	<p><i>Implement Employee Trip Reduction Measures</i> A Sustainable Meeting Policy has been developed with a view to ensuring that City meetings are held, whenever possible, at locations that are central, close to the majority of participants, and pedestrian, bicycle and transit-oriented.</p>	<p>Draft Sustainable Meeting Policy has been drafted and being evaluated in P&D.</p> <p>A trial subsidized Employer Transit Pass program began in December 2008.</p> <p>HR has begun to use videoconferencing (e.g., SKYPE) for job candidates who do not live in Surrey to reduce transit impact.</p>	<p>Lead Department: P&D Supporting Departments: HR, City Manager's Office, HR</p>
EN6	<p><i>Enhance and Expand the Nature Matters Program</i> Community education and awareness of Surrey's natural environment is a focus for the City. Actions include stewardship and youth action opportunities for the community through volunteerism. Expansion of the program will include integration of broader regional initiatives such as water conservation, air quality and waste management.</p> <p>The City is also working with the School District in assisting to develop lesson plans for teachers, teacher workshops, class fieldtrips and other activities and the creation of a host of school-based programs within the newly re-developed Nature Centre at Green Timbers.</p> <p>The City is implementing the 'Operation Save H2O' program that provides residents with water conservation tools through direct community interaction and household visits.</p>	<p>Nature Centre is in operation and other programs are underway.</p> <p>Operation Save H2O will continue and be expanded in summer 2009, with more summer students on staff and reaching out to the general population as well as high water users.</p>	<p>Lead Departments: Engineering, PRC</p>
EN7	<p><i>Implement and Publicize Green Infrastructure Pilot Projects</i> As part of its on-going practice of constructing green infrastructure pilot projects to test and monitor new green technology and practices, a "green" parking lot has been designed and constructed with porous pavement and is being monitored with a view to expanding this application.</p>	<p>In progress.</p> <p>Pervious asphalt parking lot at 146 St at 64 Ave pond (with Parks) Pervious concrete parking lot at 188 St dog off-leash park (with Parks) Pervious pavement at MEC distribution centre</p>	<p>Lead Department: Engineering</p>

	<p>An interactive web site is being developed for use by the general public and teachers to assist in the process of educating others about green infrastructure.</p>	<p>in Newton (with MEC)</p> <p>Sanitary sewer heat recovery being considered; as of April 2009, City is monitoring flows to determine if current sewer flows are adequate to support a heat recovery system.</p> <p>Operation Save H2O education program introduced in 2008 to assist high water users, and will continue in summer 2009. Teams provided info and tools to homeowners about conservation.</p> <p>Waterwise Gardens to be constructed at Southmere Village Park, including info kiosk and brochure.</p>	
<p>EN8</p>	<p><i>Apply Sustainable Engineering Standards and Practices</i> The City Centre Plan Update utility servicing study will investigate the feasibility of incorporating sustainability practices in water conservation, implementation of district heating systems, “green infrastructure” for reducing stormwater impacts, green roofs and the reduction of impervious surfaces.</p> <p>An Erosion and Sediment control bylaw has been initiated within Surrey. The bylaw is intended to ensure water quality and streams are not negatively impacted from sediment disturbances. The internal development information tools for builders, a local conference cosponsored with the International Erosion Control Association and working with the BC Home Builders Association is assisting in informing the industry.</p> <p>The City’s Drainage Bylaw was recently adopted to include sustainable drainage practices in new designs and standards. These include the use of infiltration galleries, porous pavements and rainwater gardens as means to reducing the impact of a development’s footprint.</p>	<p>Bylaws have been adopted.</p> <p>Consultants have been selected for the City Centre Plan Update utility service, which will consider sustainability features, study and work is underway.</p> <p>Erosion & Sediment Control bylaw is being implemented.</p> <p>Drainage Bylaw adopted March 2009; still to develop new Drainage Bylaw Implementation Plan and associated policies that ensure the application of sustainable engineering standards and practices.</p> <p>LID standards to be developed for drainage so that developers can implement more easily and know what’s expected.</p> <p>Various initiatives underway for drainage, e.g. infiltration swales.</p>	<p>Lead Department: Engineering Supporting Departments: P&D</p>

<p>EN9</p>	<p><i>Institutionalize Sustainable Land Use Planning and Development Practices</i> The City is developing a Sustainability Checklist, in consultation with the development industry, City committees and community stakeholders. New development projects will be measured in relation to the Checklist to determine the degree to which the goals set out in the Charter are being met.</p> <p>The Official Community Plan Update will incorporate policies that address the Charter’s vision and objectives.</p>	<p>OCP update is underway and will reflect the Charter’s vision.</p> <p>Sustainable Development Checklist under development; consultation has been held with DAC.</p> <p>NCPs are integrating sustainability concepts and goals, such as ISMPs (e.g., East Clayton).</p>	<p>Lead Department: P&D Supporting Departments: Engineering, PRC</p>
<p>EN11</p>	<p><i>Initiate Actions in Support of the Climate Change Action Plan</i> The City as a signatory to the provincial Climate Action Charter is participating in Metro Vancouver’s Climate Protection Subcommittee and has completed an inventory of current actions that are being taken to mitigate and adapt to the effects of climate change.</p> <p>The City will complete Milestones 1 and 2 of the Federation of Canadian Municipalities (FCM) Partners for Climate Protection (PCP), which includes the completion of a corporate and community Greenhouse Gas (GHG) emissions inventory and forecast and the establishment of emission reduction targets.</p> <p>A moratorium on new developments being constructed in floodplain areas has been implemented as a result of changing flood elevations that have occurred due to climate change impacts and those predicted to come in the future.</p> <p>The City is studying the Crescent Beach area related to the impact of rising ocean levels, local subsidence and groundwater intrusions and their effects on the local drainage system based on current and future conditions.</p> <p>A comprehensive flood protection study is being undertaken on the Fraser River Foreshore area. The study addresses the need for enhanced flood protection related to the annual freshet.</p>	<p>Draft inventory of community GHG emissions (CEEI, 2007) has been received from the Province.</p> <p>As part of OCP update, Energy and Climate Change chapter will be developed which will include targets for GHG reductions community-wide, along with policies and actions to achieve these targets.</p> <p>Corporate energy use and GHG emissions inventory to be developed during summer 2009 with support from Pembina Institute. This will be done in tandem with a draft Corporate Climate Change/Energy Action Plan, which will identify emission reduction strategies, targets and adaptation measures. Corporate emission reduction targets will be evaluated as part of overall Indicators project.</p> <p>Drainage & Environment looking at subsidence issue.</p>	<p>Lead Department: City Manager’s (Sustainability) Supporting Departments: P&D, Engineering, City Solicitor</p>

<p>EN12</p>	<p><i>Enhance and Protect Natural Areas, Fish Habitat and Wildlife Habitat</i> The City has initiated an Ecosystem Management Study (EMS) that includes an updated inventory of environmental assets and management processes to protect and enhance these assets.</p> <p>There will be a further expansion of stewardship programs that enhance natural areas and creeks, such as SNAP and SHaRP, while also providing unique education opportunities for students involved in the programs.</p>	<p>The EMS is underway. The first mapping phase was completed and public Open House held May 13, 2009. Internal brainstorming sessions about next steps is ongoing.</p>	<p>Lead Department(s): P&D, Engineering Supporting Departments: PRC</p>
<p>EN13</p>	<p><i>Enhance the Public Realm</i> The City has hired a City Beautification Coordinator who will work with the community to beautify the City. Initiatives will include but will not be limited to installing decorations and seasonal lighting, implementing a banner program, installing public art at Gateways, town centers, major streets and civic parking lots, and promoting mural projects, graffiti mitigation, entrance signs and other civic projects.</p>	<p>In progress. New Beautification Coordinator to be hired shortly.</p>	<p>Lead Departments: Engineering, PRC Supporting Departments: P&D</p>
<p>EN14</p>	<p><i>Increase Public Education and the Sharing of Information on Sustainability</i></p> <p>The City is preparing a Sustainability Web Site that will provide information on the Charter and its implementation, with information and web links that will assist households and businesses to become more sustainable.</p> <p>The City has prepared a 3-brochure series titled “Sustainability & You” themed on ways that residents can become more sustainable in their daily routine.</p> <p>Through Nature Matters and numerous Park, Recreation and Culture programs, Surrey residents and businesses are being engaged in learning about natural area protection, pollution prevention and waterwise practices. The City’s website includes information for all ages. The City is developing a “Passion for Action” web-based education tool for schools with modules on sustainable practices.</p>	<p>Website up and running at www.sustainability.surrey.ca and website strategy is under development.</p> <p>“Sustainability and You” brochure series has been developed plus two others specific to certain neighbourhoods (Campbell Hts and East Clayton).</p> <p>Nature Matters and PRC programs underway. Passion for Action website has been developed (http://www.passion4action.com/p4a/whowear.html)</p>	<p>Lead Department: PRC Supporting Departments: P&D , Engineering</p>