

NO: **R072**

COUNCIL DATE: **April 23, 2012**

REGULAR COUNCIL

TO: **Mayor & Council**

DATE **April 16, 2012**

FROM: **Manager, Sustainability**

FILE:

SUBJECT: **2011 Progress Report on the Surrey Sustainability Charter and the Launch of the Surrey Sustainability Dashboard**

RECOMMENDATION

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

INTENT

In September 2008 Council adopted the Surrey Sustainability Charter (the "Charter"), which is a comprehensive framework for a Sustainable Surrey. The Charter was developed in collaboration with residents, businesses, community stakeholders, Council and staff and contains a series of actions that are to be pursued by the City over time. As part of its implementation program, the Charter contains a commitment to publish an annual report to highlight successes of the prior year and to identify tasks for the coming year. This report responds to this commitment for 2011.

BACKGROUND

Part 4 (Implementation Strategy) of the Surrey Sustainability Charter notes that:

"The City's ability to achieve its vision of sustainability requires the setting of targets and the establishment of "indicators" or mechanisms to monitor progress towards meeting these targets. Indicators and targets will be established to support achieving the vision, goals and scope items of the Sustainability Charter."

At its Regular meeting on December 13, 2010, Council considered Corporate Report R253-2010 (attached as Appendix B) which documented the list of sustainability indicators and targets for the City. These were developed by a community-based Indicators & Targets Task Force. Of the 87 indicators documented in that report, 32 are within City authority and direct influence and the remaining 55 are broader measures that will be monitored and documented annually but for which the City does not have direct control on its own.

A "Sustainability Dashboard" has been prepared for the City's website to provide a visual representation of the City's performance on the selected indicators and targets referenced above.

The City has made considerable progress toward the realization of the vision as contained in the Charter since the Charter's adoption in 2008. *The Surrey Sustainability Charter Progress Report for 2011 (SC Report)*, a copy of which is attached as **Appendix "A"** to this report, highlights the accomplishments to date in implementing the vision, goals and objectives of the Sustainability Charter and documents intended actions for 2012. This year's Progress Report is also the first to integrate the sustainability indicators and targets in the report.

DISCUSSION

The following sections highlight the information in 2011 City of Surrey Sustainability Progress Report, which is attached as **Appendix "A"** to this report.

Corporate Leadership

The following key corporate initiatives and projects have been undertaken in 2011 by the City:

- **Carbon Footprint Reduction:** The Corporate Emissions Action Plan sets the goal of a 20% reduction in corporate GHG emissions by 2020. Several initiatives were commenced in 2011 including building the new City Hall to LEED Gold standards, acquiring and testing alternative-fuel vehicles for the City's fleet, and installing the first publically-accessible and free Electric Vehicle (EV) charging station at City Hall. Staff has also continued work on facility retrofits to reduce energy usage and thereby reduce GHG emissions.
- **Sustainable Purchasing:** In 2011, City staff worked as part of a municipal collaborative for sustainable purchasing to share information, resources and best practices for sustainable purchasing. A draft action plan related to sustainable purchasing was prepared for application on future purchasing decisions.
- **Employee Commuting:** City staff has commenced work on a Transportation Demand Management (TDM) framework for City employees focused on the new City Hall. The goal is to reduce GHG emissions through encouraging City employees to use more sustainable commuting options to the new City Hall in comparison to single-occupant private automobiles.

Community Action

In addition to broad community initiatives such as the City Awards Program launched in 2011, the Progress Report highlights accomplishments under each of the three Pillars of the Sustainability Charter as follows:

- **Economic Pillar:**
 - **ENERGYShift and Clean Tech Commercialization:** In 2011, the City launched the EnergyShift program, the City's plan to address climate change and increase local energy security by taking action and offering incentives in three key sectors:
 - City operations,
 - business, and
 - the community.

The City continues to focus on the Clean Tech Business component of ENERGYShift, with the intention of stimulating investment in the clean tech sector and creating high value jobs in the City.

- **Sustainable Land Use and Development:** In 2011, the Sustainable Development Checklist was introduced to assist builders and developers in developing projects that support the sustainability and well-being of the community and protect the natural environment.
 - **Local Farming:** In 2011, Flavours of Surrey was held in conjunction with Fusion Festival to highlight local food production and highlight education around the importance of local agriculture and food systems in Surrey. The Surrey Farm Fresh Guide was updated and additional “Farm Area” signage was introduced in several areas of the City.
- **Environment Pillar:**
 - The **Community ENERGYShift** was launched to kick start the development of a Community Energy and Emissions Plan that will engage the community in developing strategies to reduce energy use and greenhouse gas emissions in key sectors across the City.
 - **District Energy** work continued in relation to introducing a district energy system that will provide heating and cooling in Surrey City Centre including to the new City Hall and the recently-opened City Centre Library.
 - **Energy & Emissions Outreach & Training:** Staff has worked with the Surrey School District and the BC Sustainable Energy Association to deliver 29 “Climate Change Showdown” workshops to 671 students in 11 different Surrey elementary schools.
 - **Waste Reduction:** In 2011, staff completed a cart-based pilot organics collection program in select areas to understand customer concerns, waste diversion potential and costs. A new waste collection contract was structured based on the results of this pilot with the new contract commencing later in 2012. The new contract is expected to result in a significant reduction in waste.
 - **Sustainable Transportation:** Council adopted a Walking Plan to provide more focus on this most fundamental of transportation modes. The roll-out of the Safe & Active Schools program was continued in 2011.
- **Socio-Cultural Pillar:**
 - **Social Planning:** Work continued with respect to the implementation of the recommendations of the Plan for the Social Well-Being of Surrey Residents along with the recommendations of the Child and Youth-Friendly City Strategy and the Learning for Life Strategy. Work also continued in the critical area of housing and homelessness.
 - **Crime Reduction:** The City of Surrey was awarded the 2011 Solicitor General Crime Prevention and Community Safety Award in the local government category for its Crime Reduction Strategy. The City Watch Program was launched that engages City employees from all City Departments in crime prevention. The City also coordinated a large conference on domestic abuse for Surrey-based service providers.

- **Arts & Culture:** In 2011 a record number of significant public art installations were completed including works by Gordon Smith and Liz Magor as part of the new City Centre Library. The City also completed a draft Cultural Plan for the City, which is expected to be adopted by Council in the first half of 2012.
- **Beautification Program:** A range of initiatives aimed at making public spaces more beautiful and engaging were implemented in 2011. Highlights included the expansion of the Community Enhancement Partnership Program and a significant investment in new landscaping and seasonal lighting in the City's town centre areas.

Priorities for 2012:

Along with the continued implementation of recommendations contained in strategies already adopted by Council as referenced in the previous sections of this report, action will be taken on the following in 2012:

- **The Community Energy and Emissions Plan:** This initiative addresses GHG reduction targets that go beyond the City's own operations to key private sector operations within the community. The purpose of this Plan is to ensure that the entire City, including all significant sectors, is acting to reduce the carbon footprint of the City of Surrey as a whole.
- **Climate Adaptation Strategy:** This Strategy will contain recommendations for action by the City and other stakeholders to reduce risk where there are vulnerabilities associated with climate change. This includes things such as flooding due to sea level rise, etc.
- **Launch of the "Sustainability Dashboard" (see below):** The Sustainability Dashboard will provide an engaging interface for reporting on the City's level of sustainability and its progress toward sustainability targets. The Dashboard will also include interactive "Sustainability Maps" with spatial and visual references to the numerous projects initiated by the City.

Sustainability Dashboard

In 2010 by way of Corporate Report No. R253;2010, titled "Sustainability Charter Implementation, Indicators and Targets", Council was advised about work that was being undertaken toward the development of a Sustainability Dashboard. A copy of that report is attached as **Appendix "B"**.

The "Sustainability Dashboard" brings the City's sustainability indicators and targets together in one place on the City website and provides a visual representation of the City's performance on these metrics over time. The indicators and targets are organized by sustainability "theme" for greater usability. Baseline or trend data is not currently available for all measures but will be added over time as such data is developed.

The Dashboard will share information on the City's progress toward achieving the Surrey Sustainability Charter's vision, goals and actions, and will influence positive behaviours in the community related to sustainability issues and challenges. The beta version of the Sustainability Dashboard is scheduled to be launched in late April as part of the Party for the Planet celebration and will be available for viewing at www.surrey.ca/dashboard. The website will provide

opportunity for interested parties to provide feedback; staff will monitor and make appropriate adjustments to the website to assist in ensuring its effectiveness.

The 2011 Sustainability Charter *Progress Report* integrates the sustainability indicators and targets by tying a number of the indicators to each of the three Pillars of the Charter. The full complement of indicators and targets will be documented on the website.

SUSTAINABILITY CONSIDERATIONS

The City's Sustainability Charter identifies ongoing engagement and communication as key strategies for promoting sustainable choices in Surrey and developing broad support for ongoing City and community action in relation to sustainability. The 2011 *Progress Report* and the Sustainability Indicators and Targets Dashboard are key communication tools that demonstrate that the City of Surrey including the City's corporate functions, Surrey residents, community groups, developers and business owners are actively engaged in creating a sustainable community for future generations.

CONCLUSION

The 2011 Progress Report on the Surrey Sustainability Charter highlights progress and accomplishments to date in support of advancing the vision, goals and objectives set out in the Charter. In partnership with an array of community stakeholders, the City has made considerable progress in each of the three pillars of sustainability over the past three years. A number of significant sustainability initiatives as described in this report are being pursued in 2012 including the launch of the Sustainability Dashboard in April 2012.

Anna Mathewson
Manager, Sustainability

AM/mc

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Attachments

- Appendix A: Surrey Sustainability Charter Progress Report for 2011
- Appendix B: Corporate Report No. R253-2010, titled "Sustainability Charter Implementation, Indicators and Targets"



Sustainability Charter

UPDATE
2011



The 2011 Sustainability Charter Update is the second annual report that has been prepared since the Sustainability Charter was adopted in 2008. The report demonstrates that the City of Surrey has made considerable progress on the implementation of the Charter, and remains committed to building a sustainable City.

While all departments are responsible for implementing the Charter, the City's Sustainability Manager plays a key role in moving initiatives and actions forward. The Sustainability Charter is available at www.surrey.ca/sustainability

This update is organized by the pillars of sustainability and begins with a short overview of corporate sustainability initiatives.



Sustainability Charter

**UPDATE
2011**

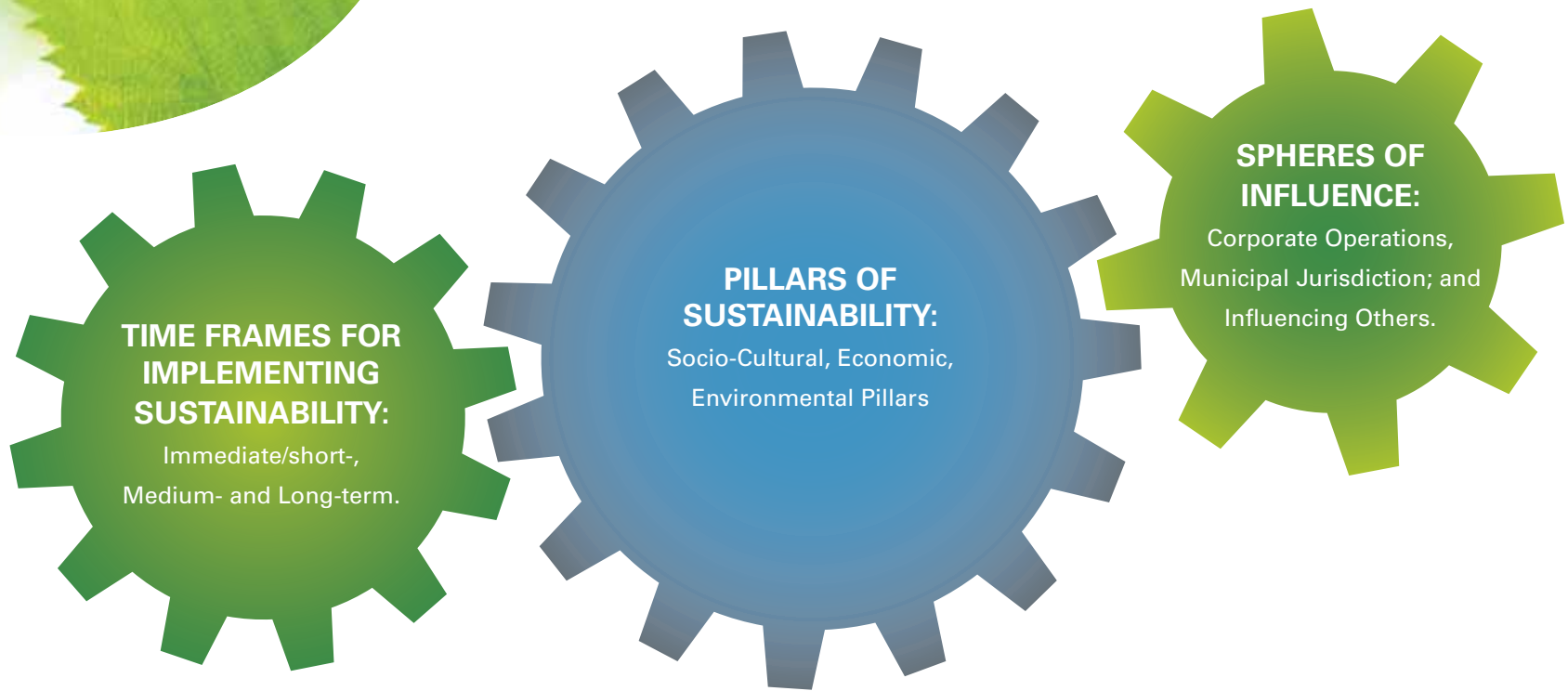
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Sustainability in Surrey is about living well but within our means and considering the social, cultural, economic and environmental impacts of everything we do.

SUSTAINABILITY CHARTER OVERVIEW

In September 2008, Council unanimously adopted the Sustainability Charter, a comprehensive framework for implementing a progressive, 50-year vision for a Sustainable City. The Charter was developed in collaboration with residents, stakeholders, staff and Council. The Charter contains 56 actions, of which 32 were highlighted for immediate action. "Sustainability" in Surrey is about living well but within our means and considering the social, cultural, economic and environmental impacts of everything we do. This means that while we are building a great and livable City, we will promote a high quality of life for our residents and businesses while minimizing negative impacts of development.

The Sustainability Charter remains the City's overarching policy document. The Charter includes an Action Framework built on:





GREEN FLEET: The City of Surrey operates two hydrogen fueling stations for corporate operations. The initial site opened in November 2010 at the Central Operations Works Yard, with a second site recently established at the Hemlock North Surrey Depot Facility (a separate third location is at Surrey's Powertech Labs). Surrey is also testing two zero emission hydrogen fuel cell vehicles, as part of the City's Green Energy Fleet Plan. The City is planning to add up to 21 alternate fuel vehicles into its fleet that include new technologies such as hydrogen, electric and compressed natural gas. The City will also add advanced charging stations at the Operations Works Yard for its electric vehicles once vehicles are procured.

OUR STARTING POINT: Demonstrating Corporate Leadership

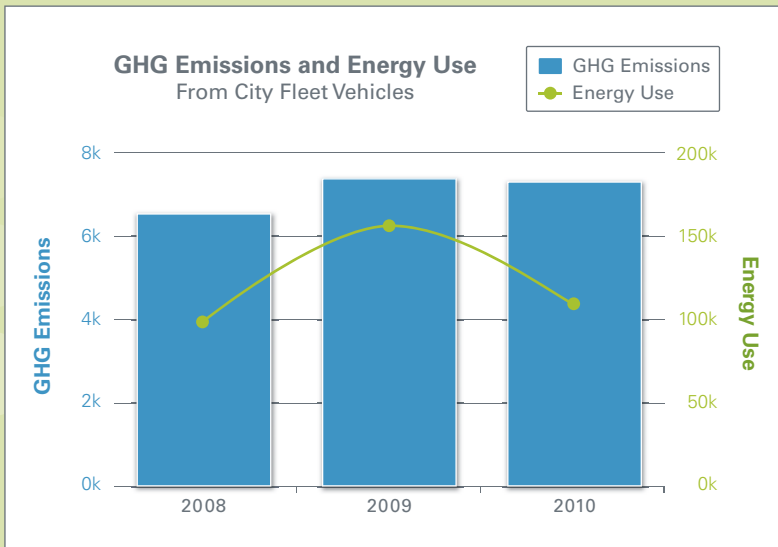
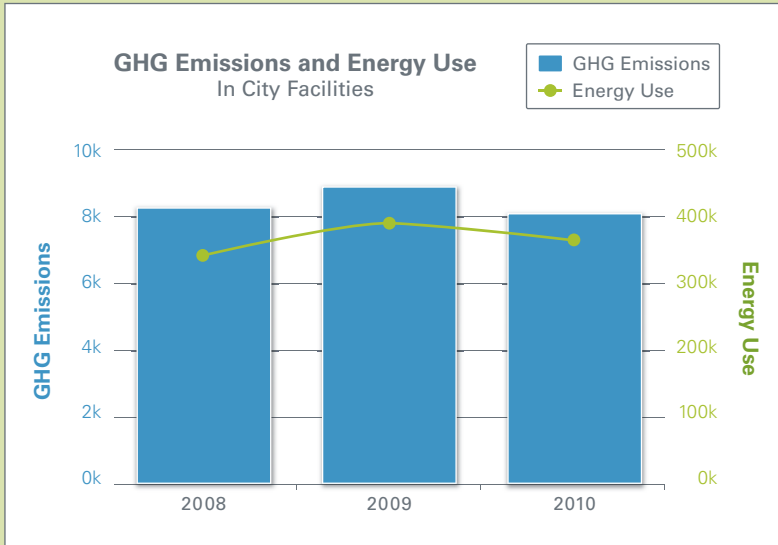
2011 continued our efforts to implement sustainability policies, practices and programs at the City. Through the efforts of Council, the City's numerous departments, an inter-departmental Sustainability Team, and the Sustainability Manager, sustainability initiatives are quickly moving ahead across the organization. High impact projects include:

REDUCING OUR CARBON FOOTPRINT – Corporate Emissions Inventory & Action Plan

As signatories of the BC Climate Action Charter, the City is committed to carbon neutral City operations beginning in 2012. To meet this requirement, the City completed an energy use and greenhouse gas (GHG) emissions inventory for 2005 to 2010 and a Corporate Emissions Action Plan. Council endorsed the Plan in October 2010 to reduce corporate emissions 20% by 2020. The corporate emissions inventory is updated annually.

Key updates for 2011:

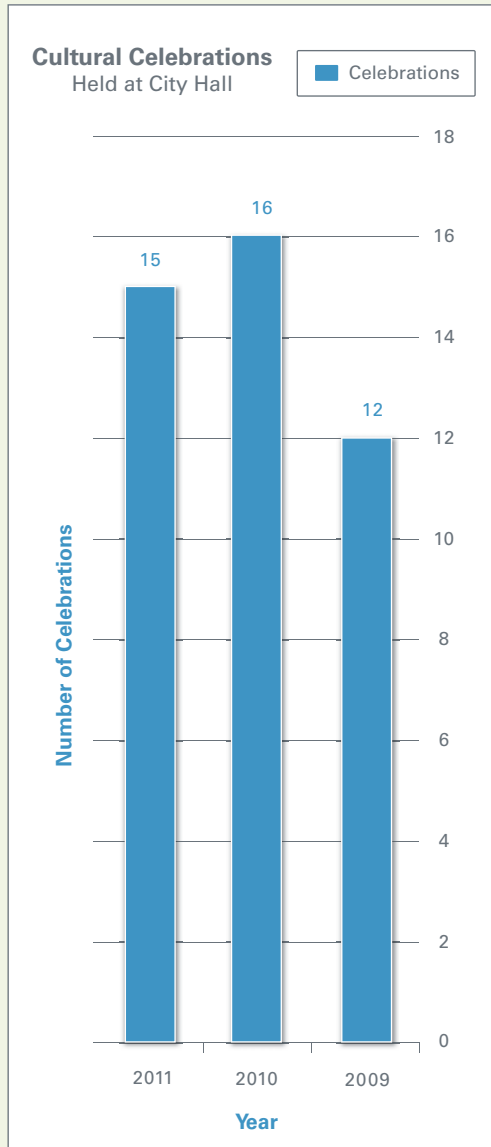
- **New City Hall:** Work continued on building a LEED Gold City Hall and District Energy System.
- **Alternative Vehicles:** The City purchased the first 100% electric vehicle – a Nissan Leaf – and the first electric vehicle conversion truck – a Ford Ranger. The City also acquired four hydrogen fuel trucks, three zero-emission hydrogen fuel-cell passenger vehicles, and a Compressed Natural Gas (CNG) refuse collection vehicle for the curbside organics collection pilot.
- **EV Charging Infrastructure:** The City installed the first publically accessible and free Electric Vehicle (EV) charging station at City Hall. This is a Level II commercial charging station.
- **Animal Care Facility:** The Surrey Animal Care facility, designed in 2011, targets LEED certification and includes a geothermal heating and cooling system.
- **Energy Monitoring System:** The City installed a Pulse Energy monitoring system for electricity and gas metering at Surrey Sports & Leisure Complex. With completion of commissioning the new mechanical systems in late 2011, the City will be able to monitor changes in energy consumption in detail to measure the impact of the upgrades and heat recovery.
- **Workplace Conservation Awareness Program for Staff:** Twelve City facilities are participating in the Workplace Conservation Awareness Program, a funded BC Hydro program. Activities to date include benchmarking employees' current energy use behaviours and developing a strategic plan for supporting behavioural change.



The new state-of-the-art Fire Hall #14 will be one of the first civic buildings that visitors will see as they cross the Canada/U.S. border into Surrey using Pacific Highway. The design incorporates art, wood, water, rock and glass and represents a contemporary and sustainable image of Surrey.

The new hall incorporates many unique sustainability features, including a solar hot water system, reduced flow water fixtures, and energy saving lighting systems. It also includes the City's latest public art display which represents the spirit of the community, depicting two firefighters and four students from Hall's Prairie Elementary School.





SUSTAINABLE PURCHASING – Integrating Triple Bottom Line

In 2011, City staff worked as part of a municipal collaborative for sustainable purchasing to share information, resources and best practices for sustainable purchasing. A draft action plan related to sustainable purchasing was prepared for application on future purchasing decisions.

TRANSPORTATION – Employee Commuting

City staff has commenced work on a Transportation Demand Management (TDM) framework for City employees focused on the new City Hall. The goal is to reduce GHG emissions through encouraging City employees to use more sustainable commuting options to the new City Hall in comparison to single-occupant private automobiles.

CELEBRATING DIVERSITY! – Cultural Awareness

To support inclusion and increase awareness, the City hosted well-attended diversity events at City Hall for major cultural and religious celebrations.

The above initiatives are great examples of how the City has embraced its commitment to sustainability. The City is seeing payback for its efforts, as evidenced by a growing list of innovative staff-initiated sustainability practices, policies and programs.



LEED® GOLD CITY HALL & A DISTRICT ENERGY SYSTEM USING RENEWABLE ENERGY: Surrey's new City Hall aims to be LEED® Gold certified and will optimize energy use through the BC Hydro New Construction Program. The City is also investing in a geo-exchange energy system that will be a catalyst for the development of Surrey's first District Energy Utility. Together, these initiatives will place Surrey as a leader in establishing green civic facilities and catalyzing sustainable urbanism in Surrey Centre.

COMMUNITY SUSTAINABILITY: Setting Clear Direction

The City's ultimate aim is to create a sustainable Surrey.



LONG TERM DIRECTION – Setting Targets & Tracking our Performance

A key tool for achieving the City's sustainability vision includes targets and measureable indicators to measure ongoing performance against the targets. With the advice and input from a *Sustainability Indicators Task Force*, the City has developed a suite of indicators aligned with the themes of the Sustainability Charter. The City has direct influence over 32 indicators, with the remaining metrics being influenced by other levels of government or other forces such as the market, the local economy and the environment.

In 2011, the City developed an on-line sustainability dashboard as a visually engaging and interactive reporting format. The Sustainability Dashboard, www.surrey.ca/dashboard, is being launched in conjunction with this Annual Report. A full list of indicators is provided under each Pillar, with results for specific metrics showcased under the various sustainability themes.

RESOURCING OUR VISION – 5-year Financial Plan Built around the Charter

To reinforce the City's commitment to becoming a more sustainable community, the City continues to align its Five-Year Financial Plan with the Charter's economic, environmental and socio-cultural pillars. This underscores the importance of the Charter as the City's overarching vision and, most importantly, ensures that financial resources are in place for City departments to implement initiatives identified in the Charter.

ENERGYSHIFT – Addressing Climate Change

In 2011, the City launched the ENERGYShift program, the City's plan to address climate change and increase local energy security by taking action and offering incentives in three key sectors: City operations, business, and the community. ENERGYShift is an integrated framework that catalyzes clean energy and low carbon solutions through community action, corporate operations and clean tech business.

CITY AWARDS PROGRAM – Celebrating Successes

In 2011, the City instituted an Awards Program to recognize significant local initiatives, including on sustainability. Awards were given out for several categories:

- Green City
- Beautiful City
- Heart in the City
- Clean Energy City, and
- New City Design



ECONOMIC PILLAR



CLEAN ENERGY SECTOR DEVELOPMENT

The City continues to focus on the Clean Tech Business component of ENERGYShift, with the intention of stimulating investment in the clean tech sector and creating high value jobs in the City. The City of Surrey is supporting sector growth through incentives for clean energy companies, mentorship, and access to professional services. Work proceeded on the CleanTech Commercialization Centre (C3) in Surrey, which will act as a regional energy hub for clean technology innovation and commercialization. The centre will be designed to support both early and later stage companies.

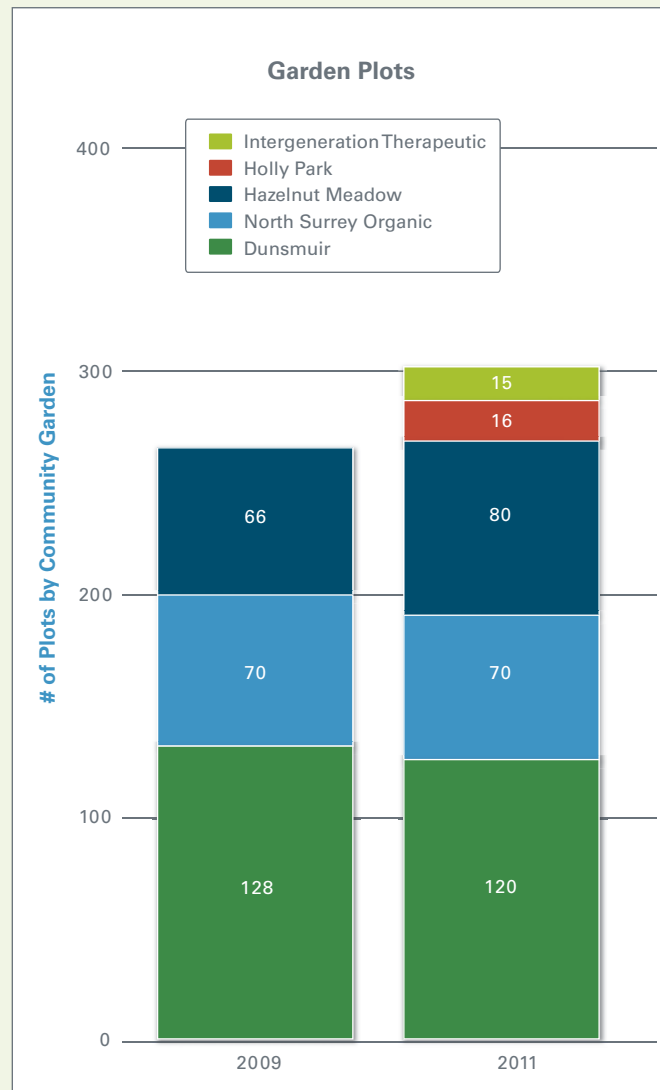
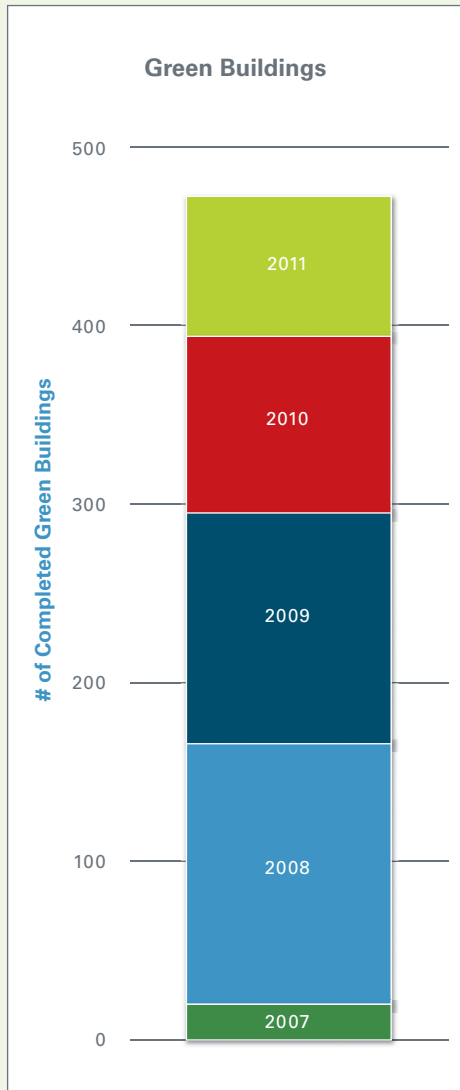
With the ongoing advice of the Mayor's Task Force on Clean Energy, the City also continued with a number of demonstration projects to catalyze investment and showcase new technologies, including testing of LED street lights and alternative vehicles in the City fleet.

SUSTAINABLE LAND USE AND DEVELOPMENT

In 2011, the Sustainable Development Checklist was introduced to assist builders and developers in developing projects that support the sustainability and well-being of the community and protect the natural environment.

LOCAL FARMING

In 2011, Flavours of Surrey was held in conjunction with Fusion Festival to highlight local food production and highlight education around the importance of local agriculture and food systems in Surrey. The Surrey Farm Fresh Guide was updated and additional "Farm Area" signage was introduced in several areas of the City.



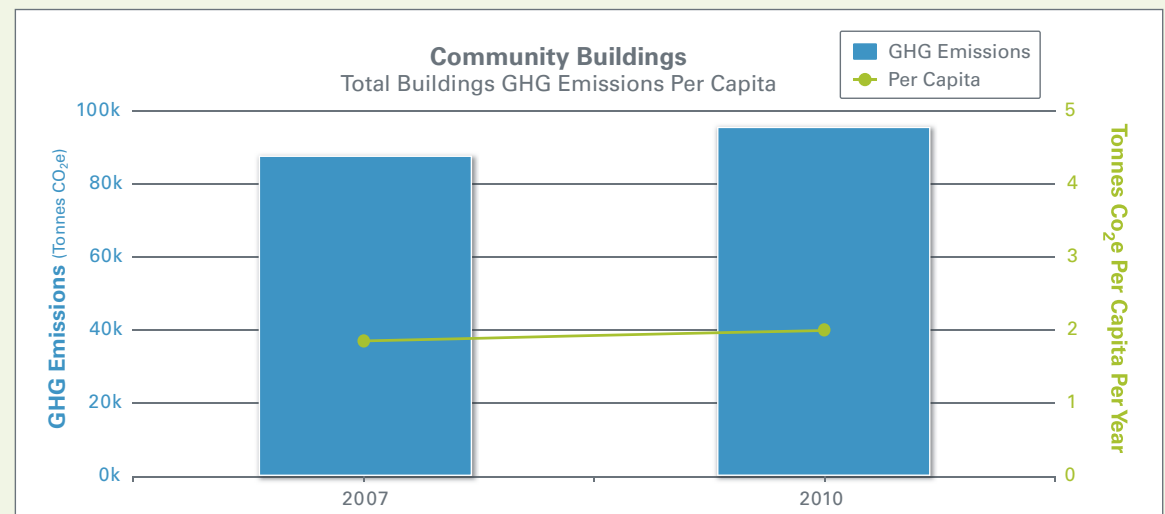
ENVIRONMENTAL PILLAR

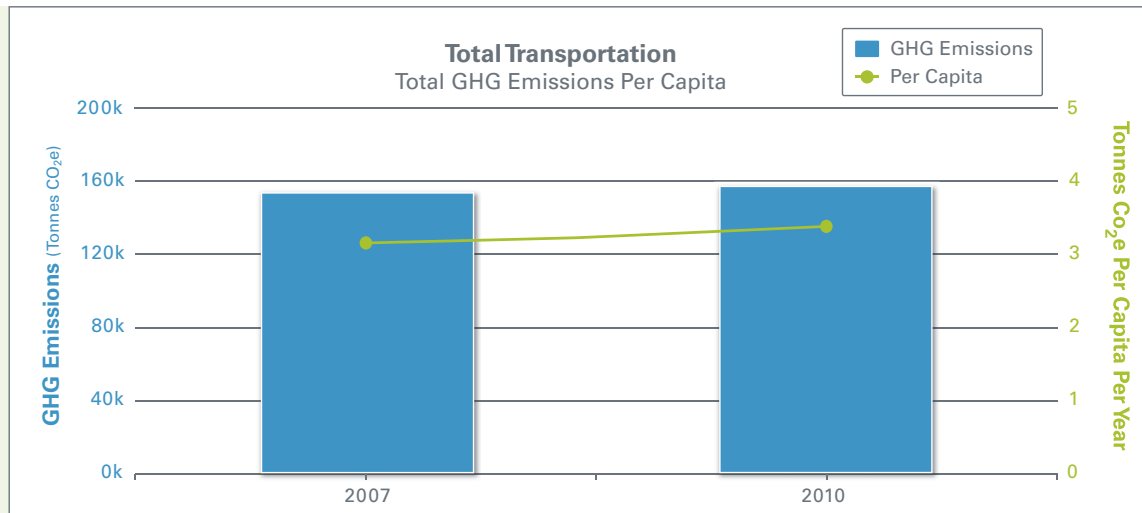


COMMUNITY ENERGY AND EMISSIONS REDUCTION INITIATIVES

A number of projects were continued in 2011 to address and reduce Surrey's overall community energy use and greenhouse gas emissions.

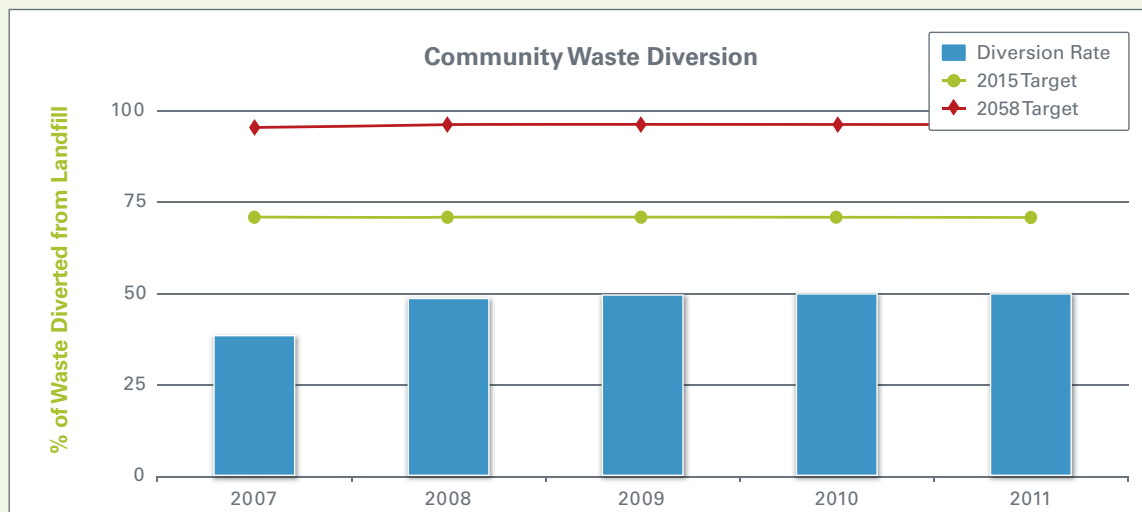
- The **Community ENERGYShift** was launched to kick start the development of a Community Energy and Emissions Plan that will engage the community in developing strategies to reduce energy use and greenhouse gas emissions in key sectors across the City.
- The City of Surrey won the Clean Energy Association of BC 'Community of the Year Award' in 2011.
- **District Energy** work continued in relation to introducing a district energy system that will provide heating and cooling in Surrey City Centre including to the new City Hall and the recently-opened City Centre Library.
- The City partnered with the BC Sustainable Energy Association to deliver 29 "Climate Change Showdown" workshops to 671 students, in 11 different Surrey elementary schools. 435.8 tonnes of GHGs were reduced through these workshops.





WASTE REDUCTION

In 2011, staff piloted a cart-based organics collection program to understand customer concerns, waste diversion potential and costs. A new waste collection contract, to begin later in 2012, has been structured based on the results of this pilot. The new contract is expected to result in significant waste reduction.



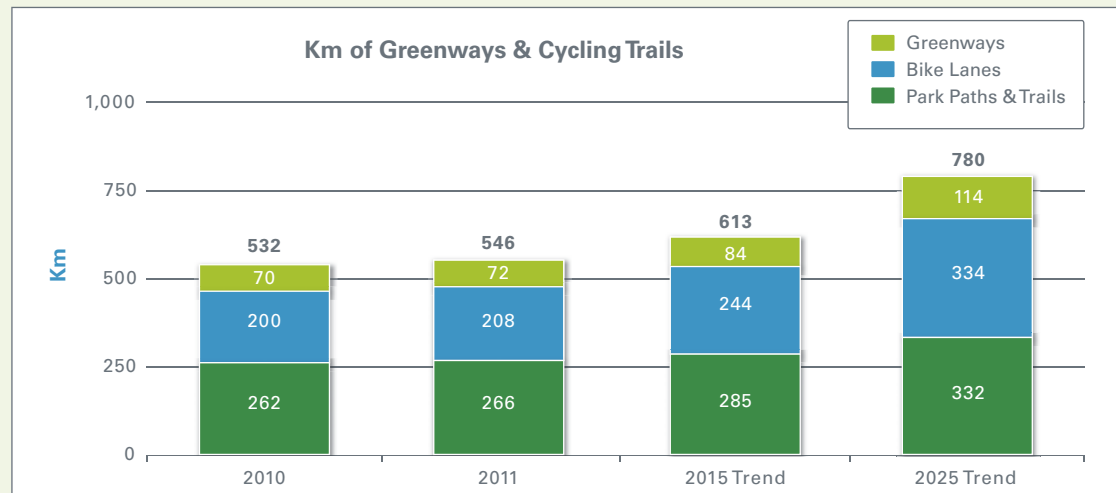
ENVIRONMENTAL PILLAR



TRANSPORTATION

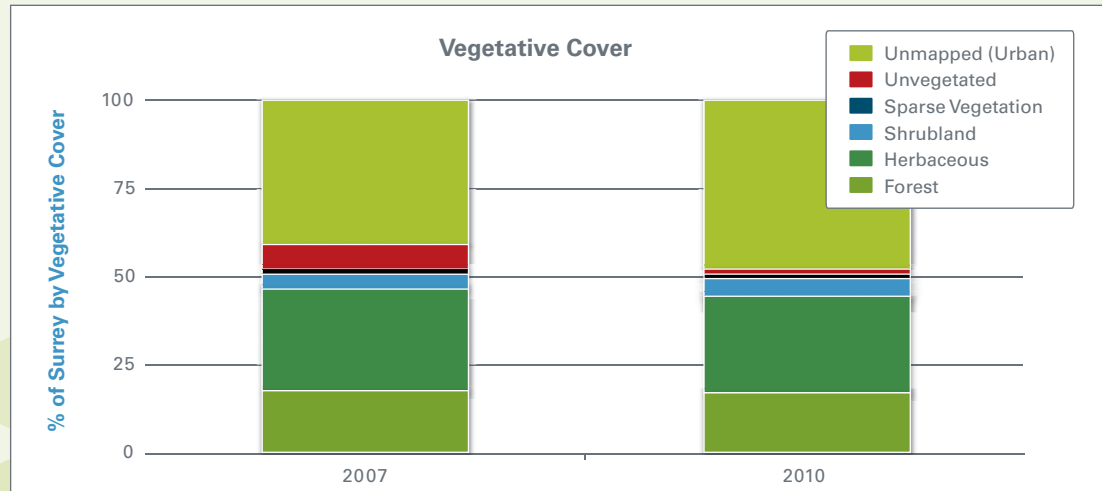
Council adopted a Walking Plan to provide more focus on this most fundamental of transportation modes. The roll-out of the Safe & Active Schools program was continued in 2011. Through the program, every school in the City has had an accessibility and safety audit, 85 improvement projects have been completed and seven schools have had personal travel planning to promote more active travel. This program has seen on-going increases in active travel to school by as much as 27%.

In addition to other transportation initiatives such as traffic calming and sidewalks, the City has worked with TransLink and the Province toward completion of the rapid transit study for Surrey.



ECOSYSTEMS

In 2011, The City completed an Ecosystem Management Study, a science-based study to identify and map the Green Infrastructure Network in the City of Surrey. It is the first phase of a broader initiative, originating from the City of Surrey's Sustainability Charter (2008), to strategically manage environmentally significant lands and ecosystem values throughout the City. The second future phase of the project will include a detailed Biodiversity Conservation Strategy.



SOCIO-CULTURAL PILLAR

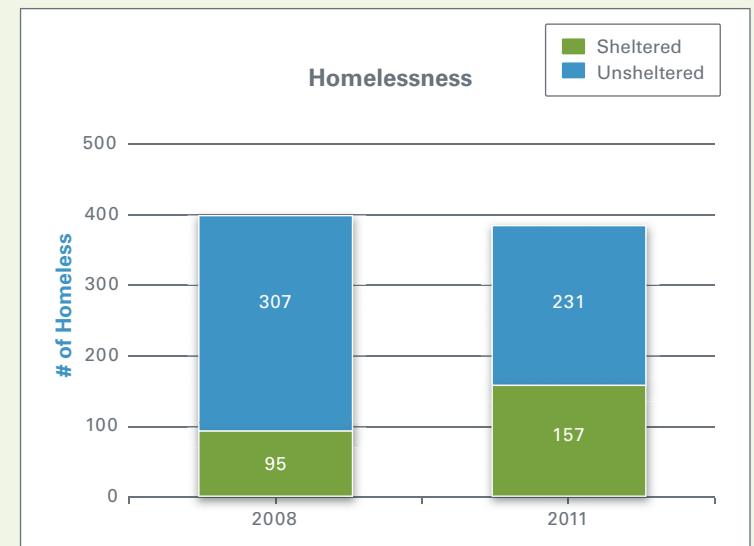


Much of the Charter's Socio-Cultural pillar is addressed in the City's Plan for Social Well-Being of Surrey Residents, and the Crime Reduction Strategy, implemented and monitored by the Social Planning Division and the Crime Reduction Strategy Manager respectively. Surrey Public Library and the Community and Leisure Services Division of the Parks, Recreation and Culture Department also play a major role in addressing socio-cultural issues in Surrey.

SOCIAL WELL-BEING

The City completed a Social Well Being Plan Annual Report 2010 which was posted on the City's website. An annual report is being developed for 2011 and will be available shortly. Ongoing activities for the plan are included in the update.

- Children and youth ("Child and Youth Friendly City Strategy")
- Age-friendly community for seniors
- Community development and inclusion
- Homelessness and housing
- Literacy ("Learning for Life")

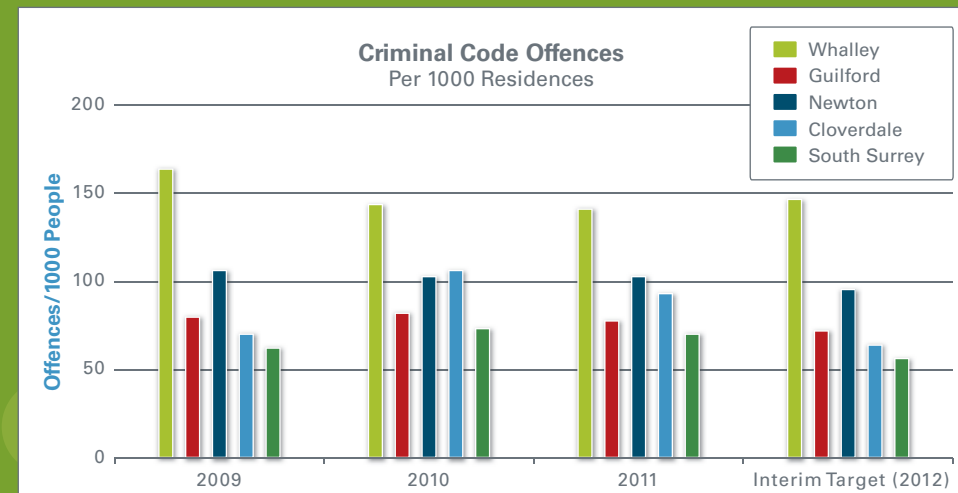


CRIME REDUCTION

Through the City Manager's Office, work continues to implement the recommendations in the City's Crime Reduction Strategy. A full report can be found on the City's website.

2011 Highlights included:

- The City of Surrey was awarded the 2011 Solicitor General Crime Prevention and Community Safety Award in the local government category for its Crime Reduction Strategy.
- The City Watch Program was launched that engages City employees from all City Departments in crime prevention.
- In February 2011, the office for the new Surrey RCMP and Transit Police partnership office opened at the Surrey Central Skytrain station.
- The 2nd annual Surrey Coalition Against Domestic Abuse (SCADA) conference for Surrey based service providers was held.
- In February 2011, the Inter-Agency Wire Theft Committee was developed.

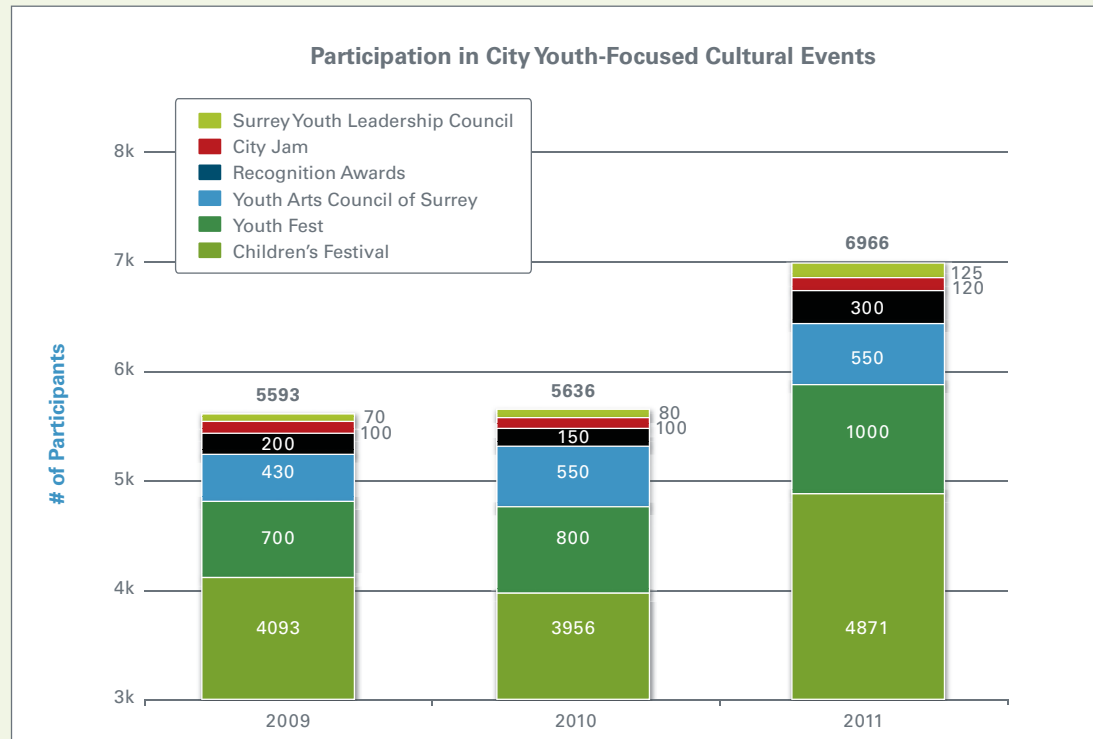


SOCIO-CULTURAL PILLAR



ARTS AND CULTURE

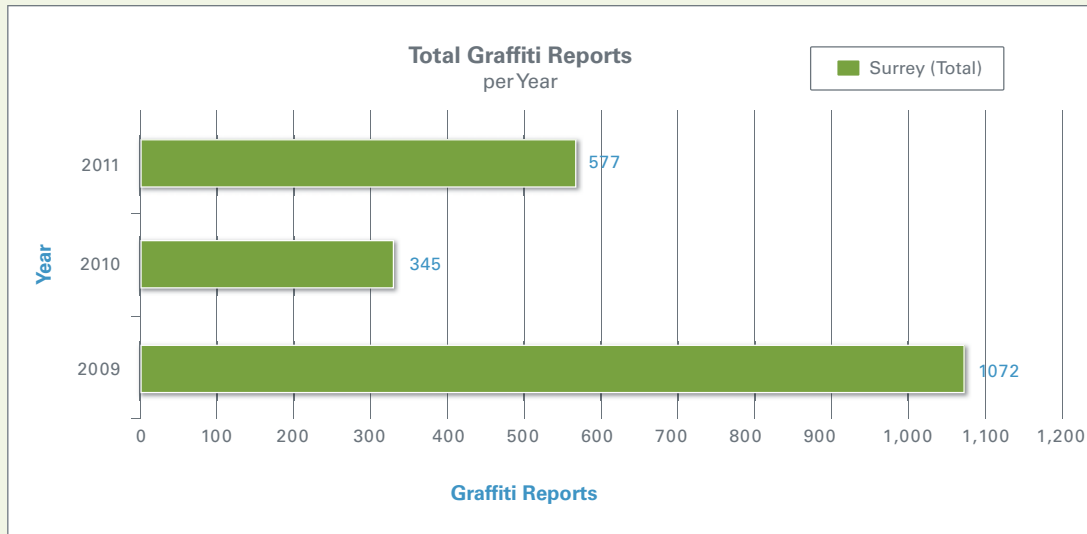
In 2011 a record number of significant public art installations were completed, including works by Gordon Smith and Liz Magor as part of the new City Centre Library, work by Robert Studer for the Cloverdale Recreation Centre and lighting designs by John Webber with EOS Lightmedia for the Tynehead Overpass and Douglas Welch with Epic Productions for the Pioneer Overpass. The City also completed a draft Cultural Plan for the City, which is expected to be adopted by Council in the first half of 2012; the Plan outlines how Surrey will mobilize its arts and heritage resources to enhance urbanization towards achieving a dynamic, sustainable and socially cohesive City with an enviable quality of life.



CITY BEAUTIFICATION

A range of initiatives aimed at making public spaces more beautiful and engaging were implemented in 2011:

- The expansion of the Community Enhancement Partnership Program, with the support of 14 new community-led beautification projects across Surrey;
- Improved landscape treatments and development of several high profile vacant City lots in City Centre;
- Graffiti reduction and improved appearance of utility cabinets through wrapping; and
- Continued coordination with City departments and external partners to enhance unsightly brownfield properties throughout the City.





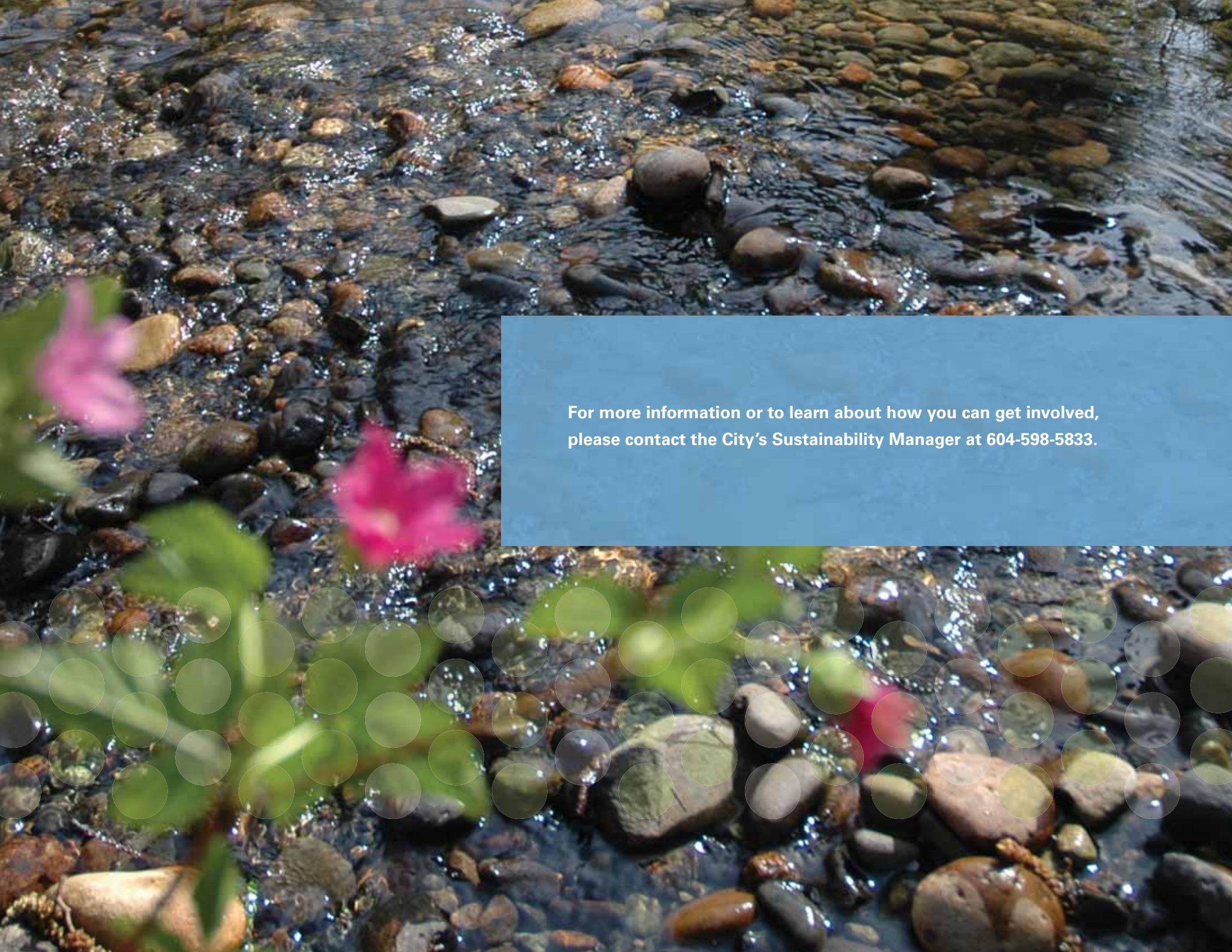
LOOKING AHEAD: PRIORITIES FOR 2012

The work of Council, City Staff and the Sustainability Office summarized in this update demonstrates that much progress has been made in implementing the Sustainability Charter over the past three years.

Priorities for 2012 in the Sustainability Office include developing a Community Energy and Emissions Plan and a Climate Adaptation Strategy and continuing to implement the recommendations contained in the Corporate Emissions Action Plan. Work will also continue on sustainable purchasing actions and a carbon neutral strategy for the City.

The Sustainability Dashboard will be launched on the City website in April 2012. Visit www.surrey.ca/dashboard to check out the suite of indicators that will help monitor our progress towards sustainability.

A more detailed implementation strategy is being developed for the Sustainability Charter that will set priorities and identify roles, responsibilities, resources and timeframes for the City to meet its sustainability targets and complete Charter Actions.



For more information or to learn about how you can get involved,
please contact the City's Sustainability Manager at 604-598-5833.

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14245-56 Avenue, Surrey, British Columbia V3X 3A2 [Visit our web site at www.surrey.ca](http://www.surrey.ca)



A COMMITMENT TO SUSTAINABILITY

NO: R253

COUNCIL DATE: **December 13, 2010**

REGULAR COUNCIL

TO: **Mayor & Council**

DATE: **December 6, 2010**

FROM: **Sustainability Manager
Deputy City Manager**

FILE NO: **0512-02**

SUBJECT: **Sustainability Charter Implementation - Indicators and Targets**

RECOMMENDATION

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

INTENT

The purpose of this report is to inform Council about a set of sustainability indicators and targets developed by a community task force that will be used to measure the City's progress toward the vision and goals of the Surrey Sustainability Charter.

BACKGROUND

Part 4 (Implementation Strategy) of the Surrey Sustainability Charter notes that:

"The City's ability to achieve its vision of sustainability requires the setting of targets and the establishment of "indicators" or mechanisms to monitor progress towards meeting these targets. Indicators and targets will be established to support achieving the vision, goals and scope items of the Sustainability Charter and these will be:

1. Clearly related to the Vision, Goals and Scope items;
2. Measurable and easily understood;
3. Comprised of data that is readily available and will remain available over time;
4. Able to measure current performance against past performance; and
5. Achievable within a reasonable time frame with available resources.

Scope Action Item G2 under the Immediate Actions of the Charter is to *establish a Sustainability Indicators Task Force* 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.

The Sustainability Indicators and Targets Task Force was brought together in September 2009. Task Force members were drawn from throughout the community, and provided input and expertise across all three sustainability pillars (i.e., Economic, Environmental and Socio-cultural). The members of the Task Force are listed in Appendix A. Members of various City Advisory Committees also participated. Mark Holland of HB Lanarc was retained to facilitate Task Force meetings and provide expertise.

At its Regular meeting on June 21, 2010, Council considered Corporate Report No. R139 (attached as Appendix C), which provided an update of the work of the Indicators Task Force and included a draft list of sustainability indicators.

DISCUSSION

Task Force Process

The Task Force members have contributed a significant amount of time and effort to the work of defining indicators and establishing targets to ensure that the City is in a good position to progress toward its sustainability goals and objectives.

Subsequent to the last update to Council in June 2010, baseline data for the proposed indicators has been gathered and proposed short and long-term targets have been refined for relevant indicators. Follow-up has taken place with the Fraser Health Authority and Surrey School District on particular indicators. Information on the indicators and targets has also been presented during September and October to representatives of the Surrey Association of Sustainable Communities, the Surrey Board of Trade Environment Committee, and to the following Advisory Committees:

- Agricultural Advisory Committee
- Environmental Advisory Committee
- Social Planning Advisory Committee
- Development Advisory Committee
- Public Art Advisory Committee
- Multicultural Advisory Committee
- Parks, Recreation & Culture Advisory Committee

Subsequent to the above meetings, the Task Force and staff used the input gathered through those meetings to further refine the proposed indicators and targets.

Indicators:

Appendix B contains the list of proposed sustainability indicators and targets, tied to the three pillars and the Scope Actions of the Sustainability Charter. In total, 87 indicators are proposed to measure progress on sustainability at a broad community level. The indicators are organized by the three pillars of the Sustainability Charter, and further, by whether they fall under: (1) the “Corporate Operations” and “Municipal Jurisdiction” spheres of influence, where the City has authority and can directly influence outcomes, or (2) the “Influencing Others” sphere of influence, where the City wishes to report on measures that are important to Surrey’s sustainability but requires the assistance of others in the community to influence outcomes and affect change.

Of the 87 proposed measures, 32 are within City authority and influence and the remaining 55 are broader measures that the City intends to report on but cannot influence on its own.

The indicators have been vetted by City staff from the perspective of their achievability and data availability. The work associated with collecting baseline data is not unduly onerous as most of the data exists within the City’s existing databases and the responsibility for preparing reports will be shared across City departments and divisions. The Sustainability Office has coordinated the baseline data collection.

Benchmark data will be collected where possible to compare Surrey’s performance on certain indicators to that of other jurisdictions, or against provincial or national averages.

It is envisioned that some of the indicators and targets will change over time as experience is gained.

The sustainability dashboard brings the indicators and targets together in one place under the framework of “sustainability” to ensure greater access by and accountability to the community.

Targets:

The targets for each of the indicators include long-term targets that relate to the 50-year vision of the Sustainability Charter, as well as shorter term or “staged” targets that establish the pace at which the City intends to move towards the long term targets (vision). The 50-year or 2058 targets are used to identify desirable outcomes over time based on what we know today. More critically, the interim targets provide a realistic look at how to shape the trend in the right direction, representing what current technology and resources may allow us to do. The intent is to measure trends and manage accordingly, so that we are trending in the right direction.

Some of the targets are objective (e.g., a number), while others are more general or subjective (e.g., trend up or down). In some cases where the indicator is beyond the jurisdiction of the City, no target is proposed at this time.

While many jurisdictions measure their progress against indicators, few have proposed targets for each indicator. In this regard, the Surrey sustainability dashboard that includes both indicators and targets will be at the forefront of sustainability reporting in Canada.

Monitoring & Reporting:

The “dashboard” will be the visual representation of the results determined through monitoring the indicators and will offer a comparison against baseline data obtained for 2009 and in some cases, 2010. The City website will be the primary vehicle for presenting the sustainability dashboard (indicators and targets). The indicators and targets may be organized by sustainability “theme” on the website for greater usability.

The main audience for the dashboard is the community with the main purpose of the dashboard being to share information on the City’s progress toward achieving the Sustainability Charter vision, goals and actions, and to build understanding and influence positive behaviours in the community related to sustainability issues and challenges.

Data on each of the indicators will be updated as frequently as possible dependent on available data sources. In general, data will be updated every two to three years in order to see emerging trends.

Updates will be provided to Council through an annual Sustainability Report.

The members of the Task Force have also agreed to meet as needed to review and reflect on the current data for each of the indicators and to suggest further improvements to the sustainability dashboard.

Implementation Strategy:

The indicators and targets form the basis of the Charter’s Implementation Strategy. The chart contained in Appendix B illustrates the process that will be followed in completing the Implementation Strategy for the Sustainability Charter. This work will be coordinated by the Sustainability Office with input from all City departments.

Link with Other City Plans and Initiatives:

The sustainability indicators and targets are linked with two key City documents: these being, the Official Community Plan (OCP) and the Sustainable Development Checklist.

The sustainability indicators will be integrated into the relevant sections of the OCP, which is currently being updated. The Sustainable Development Checklist is nearing completion and will provide data for certain indicators. For example, the Checklist requests information on building retrofit energy efficiency measures, which will be tracked over time in the sustainability dashboard to show how the City is doing with respect to improving the performance of its existing building stock – a critical part of reducing community-wide greenhouse gas emissions.

A number of targets will be integrated into the City’s Five-Year Financial Plan. Discussions are continuing on how to integrate other indicators and targets into other City strategies and plans.

SUMMARY

The City of Surrey Sustainability Charter acts as an overarching policy document for the City. Implementation of the Sustainability Charter will advance the City towards a desired outcome originally contemplated as the 2058 (50 year) sustainability vision. A key deliverable of the sustainability program in 2010 is the development of the sustainability indicators and targets to provide a means for the City to monitor its progress toward the goals and vision of the Charter. A Task Force was created with broad community membership to assist in developing indicators and targets for the Charter. The final list of indicators and targets is contained in Appendix B to this report.

Anna Mathewson
Sustainability Manager

Dan Bottrill
Deputy City Manager

AM/mc

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Appendices:

- Appendix A: Indicators & Targets Task Force Membership List
- Appendix B: Proposed Sustainability Indicators and Targets
- Appendix C: Corporate Report No. R139, titled “Sustainability Charter Implementation - Update on Progress related to the Development of Indicators and Targets”

Appendix A

City of Surrey Indicators & Targets Task Force – Membership List

Name	Organization/ Position	Pillar of interest
Stephen Dooley	Kwantlen Polytechnic University and Member, Surrey Social Planning Advisory Committee	Socio-cultural
Susan Papadionissiou	Office of Early Childhood Learning & Care	Socio-cultural
Board representative	Vibrant Surrey	Socio-cultural
Lesley Tannen	Literacy Outreach Coordinator	Socio-cultural
Dr. Helena Swinkels	Medical Health Officer, Fraser Health Authority	Socio-cultural
Pat Horstead	Surrey School District	Socio-cultural
Natasha Raey	Consultant for Seniors' Roundtable and Food Action Coalition	Socio-cultural
Vera LeFranc	Surrey Homelessness and Housing Foundation	Socio-cultural
Tariq Ghuman	Member, Surrey Multi-Cultural Advisory Committee	Socio-cultural
Muhammad Afzal Malik	Member, Surrey Multi-Cultural Advisory Committee	Socio-cultural
Rosemary Zelinka	Surrey Association of Sustainable Communities	Environmental
Deb Jack	Surrey Environmental Partners	Environmental
Al Schulze	Member, Surrey Environmental Advisory Committee	Environmental
Dr. Roy Strang	Community stakeholder	Environmental
Allen Aubert	Community stakeholder	Environmental
John Nyboer	SFU	Environmental
Marion Town	Fraser Basin Council	All
Ron Meadley	Semiahmoo Fish & Game Club	Environmental
Peter Maarsman	Green Timbers Heritage Society	Environmental
David Riley	Birds on the Bay	Environmental
Mary Eickhoff	Vancouver Area Cycling Coalition	Environmental
TBD	Translink	Environmental
Grant Rice	Surrey Urban Farmers Market	Environmental
Joanne Curry	SFU Surrey	Economic
Anita Huberman	Surrey Board of Trade	Economic
Bill Reid	Cloverdale Chamber of Commerce	Economic
Doug Hart	White Rock/Surrey Chamber of Commerce	Economic
Kathleen Zimmerman	Ministry of Agriculture and Lands	Economic
Jeff Fisher	Urban Development Institute (UDI)	Economic
Mary Jane Stenberg	Kwantlen Polytechnic University	Economic
Michael Bose	Member, Surrey Agricultural Advisory Committee	Economic
Pat Harrison	Member, Surrey Agricultural Advisory Committee	Economic
Jim Cox	Surrey Development Corp	Economic
Kevin Shoemaker	Polygon Homes	Economic
Peter Simpson	Greater Vancouver Home Builders' Association	Economic

Sustainability Charter – Proposed Indicators and Targets at December 6, 2010

Environmental Pillar

Corporate Operations/Municipal Jurisdiction (measures where the City has direct control and authority to influence change)

1. Accessibility of Transit Stops
2. Corporate Paper Consumption
3. Corporate Waste / Diversion Rate
4. Energy Use by City Facilities and Fleet from Renewable/ Alternative Sources
5. Energy Use/Greenhouse Gas (GHG) Emissions in City Facilities
6. Energy Use/Greenhouse Gas (GHG) Emissions in City Fleet
7. Number of Participants in City-Run Environmental Programs
8. Percentage Area of the City with Completed Integrated Stormwater Management Plans
9. Recreational and Cycling Trails Built by the City
10. Total City Park Acreage
11. Tree Canopy Coverage
12. Trees Planted
13. Vegetative Coverage in Urban Areas

Influencing Others (community measures where the City requires the help of others to influence change)

14. Average Residential Water Consumption in Winter Months
15. Community Waste / Diversion Rate
16. Construction Waste / Diversion Rate
17. Energy Use/Greenhouse Gas (GHG) Emissions by Community Buildings
18. Energy Use/Greenhouse Gas (GHG) Emissions by Community On-Road Transportation
19. Mode of Travel to Work by Employed Labour Force

Socio-Cultural Pillar

Corporate Operations/Municipal Jurisdiction (measures where the City has direct control and authority to influence change)

20. Availability of Programs Offered by the City and Key Social Service Groups
21. City Spending on Public Art
22. Cultural Events held at City Hall
23. Cultural Spaces provided by the City
24. Distribution of City Facilities that Offer Services and Programs
25. Key Youth-Centred City Cultural Events
26. Number of Community Gardens and Plots
27. Number of Residents that Volunteer with the City
28. Participation in the City's Leisure Access Pass (LAP) program
29. Percentage of Healthy Food Choices in City Food Vending Machines
30. Physical Accessibility of City Facilities
31. Public Meetings Held by City staff
32. Skills in Language Interpretation among City staff
33. Use of Civic Facilities by Community Groups

Influencing Others (community measures where the City requires the help of others to influence change)

34. Arts and Culture Groups in Surrey
35. Average price of a home in Surrey
36. Average rental price in Surrey
37. Criminal Code Offences in Surrey Neighbourhoods
38. Cultural Businesses in Surrey
39. Employment in the Arts in Surrey
40. Graffiti Reports
41. High School Graduation Rates
42. Incidences of Breaking and Entering in Surrey Neighbourhoods
43. Individuals and Families with Low Income
44. Labour Force Participation Rates for Immigrants
45. Licensed Child Care Spaces
46. Licensed Preschool Spaces
47. Lifelong Learning: Surrey's Rating on the Composite Learning Index (CLI)
48. Low Birth Weight Babies
49. Median Employment Income for Immigrants
50. Number and Accessibility of Farmers Markets
51. Number of Developments that Respond to CPTED Guidelines and Proceed to the Advisory Design Panel
52. Number of doctors (General Practitioners and Specialists) per 1,000 Surrey residents
53. Number of Homeless in Surrey
54. Number of Non-Market Social Housing Units
55. Number of Pocket Markets
56. Participation in Harvest Box Program
57. Percentage of new housing starts in Surrey that are multi-family dwellings
58. Percentage of Renters who are in Core Housing Need
59. Percentage of Surrey Children vulnerable in at least one Early Development Instrument (EDI) scale
60. Percentage of Surrey's population age 12 years and older that are current smokers
61. Percentage of Surrey's Population that has achieved a Type of Certification
62. Percentage of Working Poor Families
63. Post Secondary Enrolment in Surrey Post-Secondary Institutions
64. Protected Heritage Sites
65. Renters In Need and Paying at Least Half (I.N.A.L.H.) of Income on Rental Fees
66. Transition to Post-Secondary Education of Surrey High School Students
67. Unemployment Rates for Immigrants

Economic Pillar

Corporate Operations/Municipal Jurisdiction (measures where the City has direct control and authority to influence change)

68. City Funding for Beautification Projects
69. Industrial Land Base
70. Population and Employment Density on Transit Corridors
71. Proximity of Residential Units to Amenities
72. Tax burden for Residents and Percentage of Municipal Reserves to Infrastructure

Influencing Others (community measures where the City requires the help of others to influence change)

73. Age of Buildings
74. Businesses by Sector
75. Certified Green Buildings
76. Employees by Sector
77. Energy Retrofits to Existing Commercial and Institutional Buildings
78. Farm Receipts
79. Jobs to Labour Force Ratio
80. Land in Food Production
81. Median Household Income
82. Percentage of Land in the Agricultural Land Reserve (ALR) actively used for farming
83. Percentage of Surrey residents that work inside and outside of the City
84. Proportion of the City's tax base that is residential and business/industrial
85. Ratio of total population to number of ICBC-licensed vehicles in the City
86. Senior Government Investments in Community Infrastructure
87. Vacancy Rates

Sustainability Charter – Proposed Indicators and Targets at December 6, 2010
Detailed Information

Environmental Pillar

Corporate Operations/Municipal Jurisdiction (measures where the City has direct control and authority to influence change)

Proposed Indicator	Baseline*	Interim Target	2058 Target
Accessibility of Transit Stops	69% of transit stops are accessible	75% by 2030	80% stops along frequent transit lines are accessible (max. due to topography and constraints)
Corporate Paper Consumption	Awaiting baseline data	TBD; will depend on baseline data	95% paper used is 100% recycled / post consumer Trend down usage
Corporate Waste / Diversion Rate	Awaiting baseline data	70% diversion by 2015	95% diversion (zero waste)
Energy Use by City Facilities and Fleet from Renewable/ Alternative Sources	TBD (need to determine biodiesel use as a % of total energy use)	By 2018: 5%; 2028: 15%; 2038: 40%; 2048: 60%	80%
Energy Use/Greenhouse Gas (GHG) Emissions in City Facilities	Energy Used: 317,608 GJ GHGs Emitted: 8,245 tonnes CO ₂ e	20% proposed reduction by 2020 per Corporate Emissions Action Plan	80% reduction
Energy Use/Greenhouse Gas (GHG) Emissions in City Fleet	Energy Used: 99,462 GJ GHGs Emitted: 6,682 tonnes CO ₂ e	20% proposed reduction by 2020 per Corporate Emissions Action Plan	80% reduction
Number of Participants in City-Run Environmental Programs	Total Parks Environmental Programs Participants: 29,908 Other Environmental Programs Participants and Youth Employees: 24,388	X (denotes no target proposed)	x
Percentage Area of the City with Completed Integrated Stormwater Management Plans	Baseline area % coverage to be defined	ISMPs to be completed by 2014 and updated every 14 years thereafter	x

*All baseline data provided for 2009-2010 unless otherwise specified (e.g., for indicator using 2006 Census data).

Proposed Indicator	Baseline	Interim Target	2058 Target
Recreational and Cycling Trails Built by the City	Cycling Routes 428 km; Park Paths and Trails 290km; Total Recreation and Cycling Routes 718 km	By 2015: Bike Routes 492 km By 2018: Bike Routes 540 km	x
Total City Park Acreage	2583.9 ha	Trend up	trend up
Tree Canopy Coverage	Awaiting completion of tree canopy mapping study	TBD	40% minimum tree coverage for healthy urban forest (excluding ALR lands)
Trees Planted (ratio of trees planted to trees removed)	0.8 to 1 (with cash in lieu – where appropriate - going to the Green City Fund for other tree planting efforts in the City)	x	x
Vegetative Coverage in Urban Areas	52% of the City has some vegetative coverage; further mapping required to refine this measure to exclude agricultural lands and focus on urban area	TBD	50% of total urban area has vegetative coverage, excluding the ALR

Influencing Others (community measures where the City requires the help of others to influence change)

Proposed Indicator	Baseline	Interim Target	2058 Target
Average Residential Water Consumption in Winter Months	2006-2010 five-year average residential daily winter consumption: 303 l/d/c	2015: 288 l/c/d 2028: 260 l/c/d	230 l/c/d
Community Waste / Diversion Rate	2009: 49%	70% diversion by 2015	95% diversion (zero waste)
Construction Waste / Diversion Rate	2008: 76% (estimated)	x	x
Energy Use/Greenhouse Gas (GHG) Emissions by Community Buildings	Energy Used: 20,569,679 GJ GHGs Emitted: 1,415,660 (t) (2007)	33% reduction per capita by 2020	80% reduction per capita by 2050
Energy Use/Greenhouse Gas (GHG) Emissions by Community On-Road Transportation	Energy Used: 48,122,706 GJ GHGs Emitted: 909,610 (t) (2007)	33% reduction per capita by 2020	80% reduction per capita by 2050

Proposed Indicator	Baseline	Interim Target	2058 Target
Mode of Travel to Work by Employed Labour Force	15% of Surrey's employed labour force uses public transit or "other" ways to get to work such as walking or cycling (2006)	x	x

Socio-Cultural Pillar

Corporate Operations/Municipal Jurisdiction (measures where the City has direct control and authority to influence change)

Proposed Indicator	Baseline	Interim Target	2058 Target
Availability of Programs Offered by the City and Key Social Service Groups	Programs for 2009 for: <ul style="list-style-type: none"> • Children: 14,308 • Youth: 1,252 • Adults: 3,477 Program Registration for 2009 for: <ul style="list-style-type: none"> • Children: 170,552 • Youth: 19,578 • Adults: 40,686 Data for other key social service groups to be collected.	x	x
City Spending on Public Art	Public Arts Funding: \$352,103 (2009)	Trend up	Trend up
Cultural Events held at City Hall	16 events	Maintain current number (up to 16 events/yr) and expand beyond City Hall	Maintain current number (up to 16 events/yr) and expand beyond City Hall
Cultural Spaces provided by the City	130,210 sq. ft.	Trend up	Trend up with population
Distribution of City Facilities that Offer Services and Programs	<ul style="list-style-type: none"> • Arenas/Rinks: 5 • Arts Centre: 1 • Recreation Centres: 11 • Community Halls: 6 • Elementary Schools: 40 • Golf Courses (Private): 2 	x	x

Proposed Indicator	Baseline	Interim Target	2058 Target
	<ul style="list-style-type: none"> • Heritage Facilities: 6 • Libraries: 6 • Parks: 64 • Pools: 12 • Preschool Centres: 1 • Secondary Schools: 6 • Senior Centres: 2 • Sports Facilities: 5 • Stables (Private): 2 <p>Distribution of facilities to be mapped via link with COSMOS.</p>		
Key Youth-Centred City Cultural Events	<ul style="list-style-type: none"> • Surrey Children's Festival attendance: 4,359 • Number of Students Attending Festival: 5,474 <p>Youth Arts Council event numbers data TBD</p>	General trend up with population	General trend up with population
Number of Community Gardens and Plots	Number of Gardens: 3 Number of Plots: 264 plots	Trend up	Trend up
Number of Residents that Volunteer with the City	<p>Active & Approved Volunteers:</p> <ul style="list-style-type: none"> • PRC: 2,590 • SPL: 254 • Surrey Fire Service: 87 • Surrey Emergency Program (PEP): 200 • Surrey Children's Festival: 257 <p>Note: There are an additional 3,020 PRC active volunteers in the Level 1 category, who perform informal, self-supported duties.</p>	2% increase/yr	Trend up
Participation in the City's Leisure Access Pass (LAP) program	<ul style="list-style-type: none"> • People Registered in LAP: 15,598 • Number of People Below LICO (after 	Trend up (reflecting new efforts to improve program accessibility)	Trend down (fewer people below poverty line and requiring the program)

Proposed Indicator	Baseline	Interim Target	2058 Target
	tax) in Surrey: 58,785 • Proportion of people registered in LAP to people living below LICO: 26.5%		
Percentage of Healthy Food Choices in City Food Vending Machines	50%	2015: 75% 2018: 90% 100% can be achieved by 2028	100% "Healthy Foods" as defined by common labelling system
Physical Accessibility of City Facilities	Baseline data to be collected	To be determined once baseline data gathered	100%
Public Meetings Held by City staff	Clerks Office: 208 meetings (2009). Parks Operations: 22 public events (2009). Other data to be collected.	x	x
Skills in Language Interpretation among City staff	9.5% of City Staff	Trend up	Trend up
Use of Civic Facilities by Community Groups	SPL: 1,978 individual meeting bookings (with varying attendance). Other data to be collected.	x	x

Influencing Others (community measures where the City requires the help of others to influence change)

Proposed Indicator	Baseline	Interim Target	2058 Target
Arts and Culture Groups in Surrey	Surrey Arts Council Members: 2,767; Non-profit data to be processed	x	x
Average price of a home in Surrey	\$329,575 (2008)	x	x
Average rental price in Surrey	\$827 (2008)	x	x
Criminal Code Offences in Surrey Neighbourhoods	Whalley: 163/1000 Guildford: 79/1000 Newton: 106/1000 Cloverdale: 70/1000 South Surrey: 62/1000	By 2012: 10% reduction from baseline	Trend down

Proposed Indicator	Baseline	Interim Target	2058 Target
Cultural Businesses in Surrey	146 Business Licenses for "Arts, Entertainment and Recreation" (Refining number for just arts and culture-related businesses)	Trend up	Trend up with population
Employment in the Arts in Surrey	2% of Workforce (2006)	Trend up	Trend up
Graffiti Reports	1,072 graffiti files	Trend down (although enforcement may create an upward trend)	Trend down
High School Graduation Rates	Students Graduating from High School: 82.8%	2% increase in rates per decade	95%
Incidences of Breaking and Entering in Surrey Neighbourhoods	Whalley: 13.22/1000 Guildford 6.6/1000 Newton 9.55/1000 Cloverdale 7.91/1000 South Surrey 5.77/1000	Trend down	Trend down
Individuals and Families with Low Income	<ul style="list-style-type: none"> • All persons with low-income in private households (after tax): 14.7% • All Economic families with low income: 15.6% • Male lone-parent families with low income: 21.3% • Female lone-parent families with low income: 35.1% • Children (under 6) with low income: 23.2% • Youth (under 15) with low income: 23.1% • Seniors (65+) with low income: 16.4% (2006) 	Trend down	Trend down

Proposed Indicator	Baseline	Interim Target	2058 Target
Labour Force Participation Rates for Immigrants	Labour force participation rate for immigrants: 65.0% Labour force participation in general population: 67.4% (2006)	Labour force participation rate of recent immigrants approaches that of Cdn born participants	Labour force participation rate of recent immigrants approaches that of Cdn born participants
Licensed Child Care Spaces (Ratio of spaces to number of children 0 – 12)	<ul style="list-style-type: none"> • Number of Children Age 0-12 in Surrey: 68,088 • Childcare spaces for 0-12: 6,211 • Children per daycare space: 9:1 	Trend Down (i.e., more spaces)	Trend Down (i.e., more spaces)
Licensed Preschool Spaces	<ul style="list-style-type: none"> • Number of Preschool Spaces: 1,204 • Number of Spaces in Multiple License Facilities: 335 spaces • Total Number of Spaces: 1,539 	Trend up	Trend up
Lifelong Learning: Surrey's Rating on the Composite Learning Index (CLI)	CLI Rating for Surrey: 77	Trend up	Trend up
Low Birth Weight Babies	6.8%	Trend down	Trend down
Median Employment Income for Immigrants	Median employment income for immigrants (15+): \$20,456 Median employment income for total pop (15+): \$23,983 (2006)	Labour force participation rate approaches that of Cdn born participants	Labour force participation rate is the same as that of Cdn born participants
Number and Accessibility of Farmers Markets	Approx. 65.1% of Surrey's total population lives within a 20 minute bike ride of the two Farmers Markets in Surrey.	70%	75%

Proposed Indicator	Baseline	Interim Target	2058 Target
Number of Developments that Respond to CPTED Guidelines and Proceed to the Advisory Design Panel	(1) baseline to be determined; (2) 26 (100%) agenda items that went to the ADP in 2009 were subject to both staff and RCMP review	100%	100%
Number of doctors (General Practitioners and Specialists) per 1,000 Surrey residents	GPs: 217/1,000 residents Specialists: 159/1,000 residents (2008-2009)	On par with other urban centres in BC	On par with other urban centres in BC
Number of Homeless in Surrey	402 homeless (2008)	2032: zero	zero
Number of Non-Market Social Housing Units	7,043	x	x
Number of Pocket Markets		x	x
Participation in Harvest Box Program	1, 552	x	x
Percentage of new housing starts in Surrey that are multi-family dwellings	22.8%	x	x
Percentage of Renters who are in Core Housing Need	10,430 or 32% of renter households in Surrey are in core housing need (2006)	x	Trend down
Percentage of Surrey Children vulnerable in at least one Early Development Instrument (EDI) scale	28.4% of children were vulnerable in City of Surrey neighbourhoods on at least one scale of development	Reduce to 15% by 2015	5% maximum
Percentage of Surrey's population age 12 years and older that are current smokers	Current Smokers: 57,741 Proportion of Surrey that are Current Smokers: 17.7% (2005)	Trend down	Trend down; continue to be below BC average

Proposed Indicator	Baseline	Interim Target	2058 Target
Percentage of Surrey's Population that has achieved a Type of Certification	<ul style="list-style-type: none"> • High School 30.4%; • Apprenticeship or Trade 10%; • College Degree 15.8%; • University Certificate 6%; • University Degree 15.6% <i>(2006)</i>	x	x
Percentage of Working Poor Families	9.5% <i>(2006)</i>	Trend down	Trend down
Post Secondary Enrolment in Surrey Post-Secondary Institutions	<ul style="list-style-type: none"> • Total Number of Students: 16,522 • SFU Surrey: 5,217 • KPU (All Surrey Campuses): 11,305 <i>(2008/2009 School Year)</i>	Trend up or align with SFU/KPU targets	Trend up or align with SFU/KPU targets
Protected Heritage Sites	Natural Sites: 4 Constructed Sites: 44	x	x
Renters In Need and Paying at Least Half (I.N.A.L.H.) of Income on Rental Fees	3,495 or 10.8% or renters <i>(2006)</i>	Trend down	Trend down
Transition to Post-Secondary Education of Surrey High School Students	In the period 2003-2007, 55% of Surrey secondary students made the immediate transition to BC post-secondary institutions, whether in BC or elsewhere.	x	x
Unemployment Rates for Immigrants	Unemployment rates for recent immigrants: 9.7% Unemployment rates for all immigrants: 6.5% Unemployment rates for total population: 5.7% <i>(2006)</i>	Labour force participation rate of recent immigrants approaches that of Cdn born participants	Labour force participation rate of recent immigrants approaches that of Cdn born participants

Economic Pillar

Corporate Operations/Municipal Jurisdiction (measures where the City has direct control and authority to influence change)

Proposed Indicator	Baseline	Interim Target	2058 Target
City Funding for Beautification Projects	Funding for Beautification in: 2007: \$ 795,000 2008: \$ 1,478,000 2009: \$ 1,846,000 2010: \$ 2,308,000 *Operating and capital costs*	x	x
Industrial Land Base	7,401 acres	x	x
Population and Employment Density on Transit Corridors	Population and Employment Density by Corridor: <ul style="list-style-type: none"> • 104 Ave: 33.6 people/acre and 11.2 workers/acre • Fraser Highway: 42.9 people/acre and 6.9 workers/acre • King George: 35 people/acre and 16 workers/acre • City Centre: 18.0 people/acre and 15.1 workers/acre 	By 2028: 100 people per hectare (40-50 people/acre, or about 6-7 units/acre @ 5-6 pp/unit)	Double existing densities (from baseline)
Proximity of Residential Units to Amenities	Percentage of residential units near: <ul style="list-style-type: none"> • Transit stop: 80% • Retail: 64% • Schools: 44% • Town/City Centres: 26% • Parks: 94% • Trails: 46% • Bicycle Routes: 81% • Grocery Stores: 33% • Food Stores (not including gas stations or convenience stores): 13-14% 	2018: Get halfway to 2058 goals	<ul style="list-style-type: none"> • Transit: 90% • Retail: 82% • Schools 72% • Town Centres: 63% • Parks: 97% • Trails: 73% • Bike Routes: 91% • Grocery Stores: 66% • Food Stores: 28%

Proposed Indicator	Baseline	Interim Target	2058 Target
Tax burden for Residents and Percentage of Municipal Reserves to Infrastructure	Total tax burden per resident \$889; residential tax burden per resident \$585 % municipal reserves to infrastructure: 2.05%	x	x

Influencing Others (community measures where the City requires the help of others to influence change)

Proposed Indicator	Baseline	Interim Target	2058 Target
Age of Buildings (from Building Permit and BC Assessment data)	<ul style="list-style-type: none"> • Average age of all buildings in Surrey: 25 • Average age of buildings in: <ul style="list-style-type: none"> • Cloverdale: 11 • Fleetwood: 17 • Guildford: 22 • Newton: 17 • South Surrey: 20 • Whalley: 29 	x	x
Businesses by Sector	All Businesses: 14,411 <ul style="list-style-type: none"> • Contractors or Building Services: 2,550 • Manufacturers: 1,055 • Transportation: 489 • Wholesale Merchants: 871 • Retail: 1,667 • Finance, Insurance & Real Estate: 390 • Services: 7,389 	x	x
Certified Green Buildings	<ul style="list-style-type: none"> • Total Number of green certified buildings in Surrey: 342 completed buildings • Total number of registered projects: 143 	X	X

*All baseline data provided for 2009-2010 unless otherwise specified (e.g., for indicator using 2006 Census data).

Proposed Indicator	Baseline	Interim Target	2058 Target
Employees by Sector	All Employees: 159,190 <ul style="list-style-type: none"> • Office: 18,770 • Industrial: 55,420 • Commercial: 60,990 • Institutional: 24,010 	x	x
Energy Retrofits to Existing Commercial and Institutional Buildings	<ul style="list-style-type: none"> • Number of commercial buildings with certified energy retrofits: 5 • Square footage TBD 	By 2018: 5% By 2028: 15% By 2038: 40% By 2048: 60%	80% from today of buildings older than "x" (TBD)
Farm Receipts	<ul style="list-style-type: none"> • Total Gross Farm Receipts: \$153,390,637 • Total Farm Capital: \$1,083,076,189 • Number of Farms: 487 	x	x
Jobs to Labour Force Ratio	0.7 Jobs to Every 1 Person in Labour Force	0.85 by 2031	1:1
Land in Food Production	Awaiting updated 2010 data from Ministry of Agriculture and Lands	No net loss	No net loss
Median Household Income	<ul style="list-style-type: none"> • Cloverdale: \$72,956 • South Surrey: \$70,762 • Fleetwood: \$65,678 • Newton: \$60,615 • Guildford: \$52,062 • Whalley: \$50,948 • City of Surrey: \$60,168 	x	x
Percentage of land in the Agricultural Land Reserve (ALR) actively used for farming	Awaiting updated 2010 data from Ministry of Agriculture and Lands	No net loss of ALR land	No net loss of ALR land; Maintain or increase land in ALR actively used for farming
Percentage of Surrey residents that work inside and outside of the City	38.5% of residents work in Surrey (either at home or at a workplace) 46% work outside Surrey in another municipality 15.5% have no fixed workplace (2006)	x	x

Proposed Indicator	Baseline	Interim Target	2058 Target
Proportion of the City's tax base that is residential and business/industrial	Residential: 70% Business & Industrial: 30%	60% residential; 40% Business/industrial by 2021	60% residential; 40% business/industrial
Ratio of total population to number of ICBC-licensed vehicles in the City	Population of Surrey (2009): 466,200 Total number of registered vehicles: 282,412 (2009) Registered vehicles per resident: 0.61:1	Trend down	Trend down
Senior Government Investments in Community Infrastructure	Federal and provincial funding per capita, total for the City in 2009: \$41.76 Transfers from other governments in 2009:\$19,467,000	Trend up (long term)	Trend up (long term)
Vacancy Rates	Industrial vacancy: 2.5% Office vacancy: 16.1%	x	x

CORPORATE REPORT

NO: **R139**

COUNCIL DATE: **June 21, 2010**

REGULAR COUNCIL

TO: **Mayor & Council**

DATE: **June 18, 2010**

FROM: **Deputy City Manager
Sustainability Manager**

FILE: **0512-02**

SUBJECT: **Sustainability Charter Implementation - Update on Progress related to the
Development of Indicators and Targets**

RECOMMENDATION

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

INTENT

The purpose of this report is to advise Council of the efforts being made to develop sustainability indicators and targets to measure progress towards the Sustainability Charter's vision and goals.

BACKGROUND

Part 4 (Implementation Strategy) of the Surrey Sustainability Charter notes that the City's ability to achieve its vision of sustainability requires the setting of targets and the establishment of "indicators" or mechanisms to monitor progress towards meeting these goals. It states that indicators and targets will be established to support achieving the vision, goals and scope items of the Sustainability Charter and these will be:

1. Clearly related to the Vision, Goals and Scope items;
2. Measurable and easily understood;
3. Comprised of data that is readily available and will remain available over time;
4. Able to measure current performance against past performance; and
5. Achievable within a reasonable time frame with available resources.

Scope Action Item G2 under the Immediate Actions of the Charter is to *establish a Sustainability Indicators Task Force* 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.

The Sustainability Indicators and Targets Task Force were brought together in September 2009. Task Force members are drawn from throughout the community, and provide input and expertise across all three sustainability pillars; a membership list is attached as Appendix A. Several

members of City Advisory Committees are also participating. A facilitator, Mark Holland of HB Lanarc, was engaged to facilitate Task Force meetings and provide expertise on these issues.

At the initial meeting held September 29, Task Force members received an introduction to concepts and definitions of indicators. At meetings held October 15 and December 2, 2009 the Task Force was divided into three sub-committees representing the three sustainability pillars – Socio-cultural, Economic and Environmental - and began to identify appropriate indicators tied to each Charter Scope Action item. The sub-committees were a means to make efficient use of participants' time and resources, though it is recognized that a holistic perspective is needed for sustainability. At the December 2009 meetings, the Task Force brainstormed over 300 possible indicators and narrowed this list to approximately 100 indicators for further consideration. This list by Sustainability pillar is documented in Appendix B.

In January 2010, City staff reviewed the prioritized indicators to determine if data was readily available; the Task Force then discussed these in more detail at sub-committee meetings held on January 26, February 2 and February 9, 2010. Throughout this process, relevant City staff were also canvassed and involved, and several attended Task Force meetings to share their expertise.

On March 24 and April 9, 2010, the full Task Force met to begin discussing longer term or "aspirational" targets for proposed indicators, looking at the Charter's 50 year vision for 2058.

DISCUSSION

Attached in Appendix B is a preliminary list of indicators, tied to the main themes of the Sustainability Charter. The Indicators and Targets Task Force continues its discussions on appropriate sustainability indicators, working with staff to identify data limitations and other issues. Engagement from Task Force members has been very high and they continue to provide their time, energy and expertise to this process, indicating that they see indicators and targets as critical to making the Sustainability Charter operational. The overall goal of this process is to identify an appropriate number and scope of indicators that will measure progress on sustainability, knowing that the list will evolve over time.

In the coming months, staff will continue discussions with the Task Force on longer-term targets for 2058, as well as for shorter term or "stage" targets that will determine the pace at which the City can move towards its vision. For example, if we set a waste reduction goal of "zero waste" for 2058, we would need to consider the current baseline of waste diversion in the community, and determine appropriate waste diversion targets for 2018, 2028 and so on that would enable us to reach 100% diversion in 2058.

Broader input will be sought on proposed indicators and targets, including from City Advisory Committees and public open houses this fall. Throughout this time Council and the Task Force will be updated and staff will remain involved. Further, staff will be working with SFU Surrey's School of Interactive Arts and Technology to develop innovative options for visualizing the indicator results and presenting them to the community. A full complement of sustainability indicators and targets will be brought to Council for approval this Fall. If endorsed, initial reporting on indicators could be completed in early 2011 via the City website and other means.

SUSTAINABILITY CONSIDERATIONS

Through the Sustainability Office, staff will continue to pursue sustainability ideas and initiatives that further the Sustainability Charter goals. Implementation of the Sustainability Charter will advance the City towards its 2058 sustainability vision. The development of indicators and targets in particular, will set a critical baseline against which to monitor progress over time.

SUMMARY

The City of Surrey Sustainability Charter sets out a vision for sustainability in Surrey and acts as an overarching policy document for the City. A key deliverable of the sustainability program in 2010 is the development of the sustainability indicators and targets to monitor progress. A Task Force was created with broad community membership supplemented with support staff that has developed a preliminary list of indicators as contained in Appendix B. Further work is required to refine the indicators and develop targets for Councils consideration later this Fall.



Anna Mathewson
Sustainability Manager

Dan Bottrill
Deputy City Manager

AM/DB/mc

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Appendices

Appendix A – List of Task Force Members

Appendix B – Preliminary List of Sustainability Indicators