



**a healthy environment**

**leadership governance & community**

**smart development**

**an innovative economy**

**a secure, healthy & enriched society**

## Acknowledgements

This background communiqué was prepared by an interdepartmental staff working group comprised of the following individuals:

*Margot Daykin, M.R.M., Assistant Manager, Environmental Programs*

*Jamie Esko, Park Planner*

*Scott Groves, P.Eng., Engineer, Major Projects*

*David Brownlee, M.A., Planner 2*

*Lesley Sherlock, Social Planner*

*Suzanne Bycraft, Manager, Fleet & Environmental Programs*

*Robert Gonzalez, P.Eng., Director, Engineering*

*Glenn McLaughlin, Manager Purchasing & Risk*



## 1. Introduction

- 1.1 The City of Richmond has established a vision to be to be the *most appealing, livable and well managed community* in Canada. This vision was set out in the 1997 Corporate Renewal Plan. Achieving a community that provides quality of life today and tomorrow is inherent in this vision.
- 1.2 To meet its vision, the City of Richmond has been developing and implementing a range of innovative initiatives in an effort to accelerate the transition towards a more sustainable Richmond community – one where improvements made today also leave a lasting positive legacy for future communities.
- 1.3 A strong understanding of action taken to-date is important for celebrating success, demonstrating accountability and building momentum.
- 1.4 This report takes stock of current City of Richmond corporate activities and explores opportunities for the City to further advance local community sustainability.
- 1.5 This report was prepared internally by a staff working group with cross-representation from City departments.
- 1.6 The purpose of this report is to convey key corporate achievements and to provoke thought and inspiration on opportunities for moving the City or Richmond forward as a leading municipal government in sustainability and, ultimately support accelerating the journey towards a more Sustainable Richmond.

## 2. Describing Sustainability

- 2.1 Sustainable development is a concept which has emerged over the last twenty years in response to concerning global trends which impact quality of life. These include:
- rapid population growth
  - limitations of the oil economy
  - changing ecological and atmospheric conditions which support human activity
  - decreasing resource renewal and increasing resource consumption
  - increasing loadings of persistent pollutants
  - increasing wealth disparity and inability to meet basic needs for all people.
- 2.2 At the local level, Canadian municipalities are struggling with insufficient revenue sources, ageing infrastructure, rapid infrastructure expansion demands, regulatory downloading, fluctuating market conditions, lack of control over external costs and a mandate for managing urban growth, curbing sprawl, planning complete and compact communities, and securing affordable housing, economic prosperity, agricultural viability and ecological health.

- 2.3 The core of sustainability is to:
- achieve a good life today
  - leave a quality future for next generations.
- 2.4 A sustainable society depends upon the achievement of 4 conditions:
- a strong, healthy and enriched Richmond society
  - a healthy ecosystem
  - a responsible and innovative economy
  - a strong leadership government and community (at all levels) - *a sustainable community depends on everyone working together and cannot be delivered by any one party acting alone.*



Figure 1: Conditions of A Sustainable Community

- 2.5 Characteristics of a sustainable community at the local level are more specifically described in Table 1.

**Table 1: Characteristics of Sustainable Community at the Local Level**

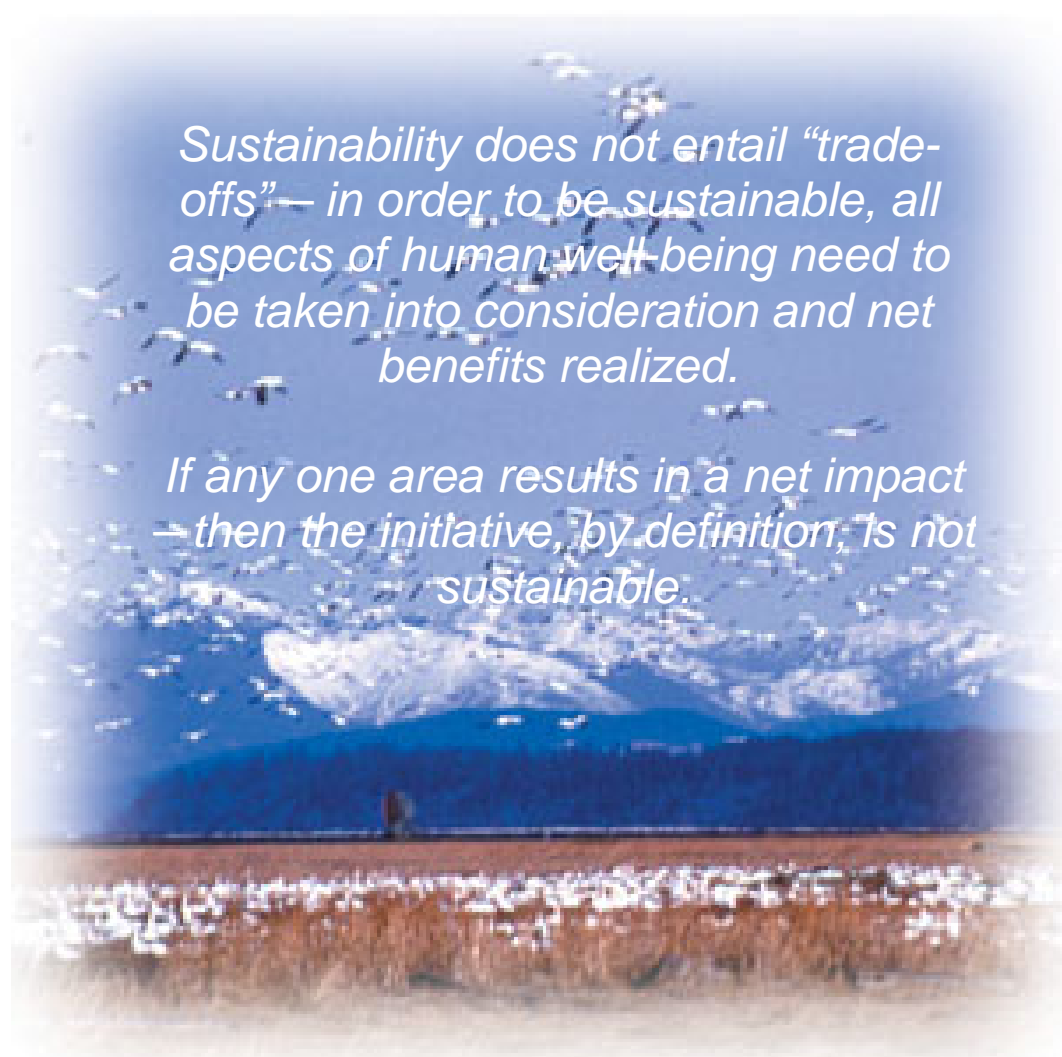
<b>Features</b>	
<i>Community Security &amp; Enrichment</i>	<ul style="list-style-type: none"> <li>• <b>basic needs</b> are met (e.g., affordable housing, health care, affordable nutritious food, employment, etc.)</li> </ul>
	<ul style="list-style-type: none"> <li>• high degree of <b>security</b> (e.g., daily safety, protected from natural elements including climate change, energy and food security, etc.)</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>equitable</b> opportunities for fulfillment (e.g., education, range of employment, volunteerism, creative &amp; artistic fulfillment, accessible recreation and culture facilities and programs, health and well-being)</li> </ul>
	<ul style="list-style-type: none"> <li>• a strong <b>sense of community</b> and cultural diversity</li> </ul>
	<ul style="list-style-type: none"> <li>• capacity for resiliency and <b>adaptability</b> to respond to change</li> </ul>
	<ul style="list-style-type: none"> <li>• focus on learning and <b>education</b> and an ethic of caring</li> </ul>
<i>Creating Smart Communities</i>	<ul style="list-style-type: none"> <li>• an <b>urban form</b> with a high degree of supporting sustainable lifestyles (e.g., complete/compact communities, sustainable transportation, affordable housing, low-impact development, mixed-uses, etc.)</li> </ul>
	<ul style="list-style-type: none"> <li>• a prosperous <b>economic system</b> organized around cooperation, local production, resource efficiency and intra-generational equity</li> </ul>
	<ul style="list-style-type: none"> <li>• a high degree of <b>resource self-sufficiency</b> and use of renewable resources within their rates of regeneration</li> </ul>
<i>Environment Sustainability</i>	<ul style="list-style-type: none"> <li>• effective <b>management of natural assets</b> so that economic, social and ecological services provided by local ecosystems are optimized over the long-term</li> </ul>
	<ul style="list-style-type: none"> <li>• human systems are designed to function as a part of a <b>living eco-productive landscape</b>, stressing regeneration and resiliency, and mimicking natural patterns and processes</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>toxins are well-managed</b> which includes the elimination of toxins that pose an unacceptable risk to environment and humans</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>healthy urban environments</b> exist and are equitably accessible to all citizens today and in the future</li> </ul>
	<ul style="list-style-type: none"> <li>• a web of ecologically-designed and well-connected greenways exist throughout the community to regenerate and protect <b>biodiversity</b></li> </ul>
<i>Leadership Community &amp; Governance</i>	<ul style="list-style-type: none"> <li>• a leadership-based government and community (development, business, residents, etc.) ready to undertake <b>new modes of business</b> and development</li> </ul>
	<ul style="list-style-type: none"> <li>• the use of a sustainability-based <b>decision-making</b> by government and the community</li> </ul>
	<ul style="list-style-type: none"> <li>• a highly <b>participatory</b> governance process</li> </ul>

2.6 There is no blueprint for achieving local sustainability. Rather, each community has its own unique conditions which provide opportunities and constraints in context of their community assets and external forces.

2.7 However, while there may be no clear recipe, it is recognized that the pathway forward to realizing opportunities requires comprehensive decision-making.

Sustainability-based decision-making strives to:

- **equitably** consider all communities (e.g., current and future generations, developed and developing communities, etc.)
- **integrate** consideration of economic prosperity, community well-being and ecological integrity, aiming to develop initiatives which mutually reinforce each other and yield greater benefits in combination than when implemented alone.
- identifies and **protects** assets and resources by mitigating risks, ensuring stability and renewal, and **enriching** quality of life.



*Sustainability does not entail “trade-offs”— in order to be sustainable, all aspects of human well-being need to be taken into consideration and net benefits realized.*

*If any one area results in a net impact — then the initiative, by definition, is not sustainable.*

### **3. The Power of Local Communities**

- 3.1 Cities are major centres for driving sustainable development. By the year 2030, it has been projected that 60% of the world's population (4.9 billion) will be living in urban areas.
- 3.2 Cities depend on areas significantly larger than their size for their existence and development. For example, a North American city the size of Vancouver can typically depend on a land area up to 175 times larger than its political area.
- 3.3 Local governments are positioned to be able to make significant on-the-ground change and facilitate the creation of Smart Cities. In partnership with their broader communities, local governments are able to effect change in all facets of local sustainability - environmental, economic and social.
- 3.4 Specifically, municipal governments can affect change through:
- their representation of local interests and inter-governmental relations
  - their delivery of community planning and municipal services
  - their ability to lead by example as a corporate entity and
  - their opportunity to partner with the broader community to effect system-wide change.
- 3.5 The City of Richmond is strongly positioned to accelerate transition to greater sustainability. This strength originates from the City's:
- institutional assets, including a dedication towards community care and a culture of innovation and continual improvement
  - geographical location, which provides to the City the ability to live within a stunning, rich and productive ecosystem, which in turn is supportive of the development of a strong local economic base, and a healthy and enriching living environment
  - community assets, including a diverse range of community services and an active and engaged participatory community.

### **4. City of Richmond – Sustainability in Action**

- 4.1 The City of Richmond has undertaken a wide range of initiatives which have been formulated to support the achievement of the four characteristics of a sustainable community:
- Community Security &, Enrichment
  - Creating Smart Communities
  - Environmental Sustainability
  - Leadership Community & Governance.



- 4.2 Initiatives considered to incorporate elements of higher sustainability value are identified in Table 2. Sustainability value is characterized as elements which:
- incorporate a high degree of **relevance**
    - ~ directed at priority areas which enable the community to respond and adapt to global changes and sustainability imperatives (e.g., climate change, energy reliance, resource renewal, etc.)
    - ~ contribute to a meaningful level of improvement
  - catalyze systemic change and create **legacy** (quality improvements for today which create value for tomorrow)
  - mutually **reinforce** benefits (e.g., social, economic and environmental)
  - incorporate **comprehensive** decision-making
  - showcase **innovation** and demonstrate do-ability.

- 4.3 Established initiatives include:
- Council support for international sustainability efforts, including advocating support for the Kyoto Protocol to the Canadian Government
  - embedding sustainability-based decision-making into corporate service areas, including Council adopted Environmental Purchasing policy, High Performance Building policy and Green Fleet policy
  - agricultural and environmental resource protection, including adoption of the Agricultural Viability strategy, the securing of the Richmond Nature Park and an Environmental Sensitive Areas work program in effect for over 40 years
  - early adoption of innovative technology, showcasing innovation and demonstrating success at the building, development site and community level
  - a suite of community partnership and engagement initiatives aimed at encouraging inclusive governance and community empowerment.

**Table 2: City of Richmond Sustainability Initiatives**

Community Security & Enrichment	Creating Smart Communities	Healthy Ecosystem	Leadership Governance (Fiscally-Wise, Green, Participatory & Learning)
<i>Active Initiatives</i>			
<p><i>Security</i></p> <ul style="list-style-type: none"> <li>• Affordable Housing:               <ul style="list-style-type: none"> <li>~ Statutory Reserve Fund</li> <li>~ Affordable Seniors Supportive Housing Design Guidelines</li> </ul> </li> <li>• Child Care Program               <ul style="list-style-type: none"> <li>~ Statutory Reserve Fund</li> <li>~ Development Policy</li> </ul> </li> <li>• Diversity Services               <ul style="list-style-type: none"> <li>~ Working Poor fund</li> <li>~ Fee Subsidy program</li> </ul> </li> <li>• Emergency Preparedness Program</li> </ul> <p><i>Wellness</i></p> <ul style="list-style-type: none"> <li>• Addiction Management               <ul style="list-style-type: none"> <li>~ Substance Abuse Strategy</li> <li>~ Problem Gambling Prevention and Treatment Strategy</li> </ul> </li> <li>• Seniors Wellness Coordinator</li> <li>• Garrett Wellness Centre</li> </ul> <p><i>Enrichment</i></p> <ul style="list-style-type: none"> <li>• Asset Development</li> <li>• Garrett Wellness Centre</li> <li>• Grants Program</li> <li>• Intercultural Strategic Plan</li> <li>• Parks, Recreation and Cultural Services Master Plan</li> <li>• Public Art               <ul style="list-style-type: none"> <li>~ Public Art Program</li> <li>~ Arts Strategy</li> </ul> </li> </ul>	<p><i>Protecting Agricultural Resources</i></p> <ul style="list-style-type: none"> <li>• Agricultural Viability Strategy</li> </ul> <p><i>Creating Compact &amp; Complete Communities</i></p> <ul style="list-style-type: none"> <li>• Official Community Plan</li> <li>• West Cambie Area plan</li> <li>• Transportation Program               <ul style="list-style-type: none"> <li>~ Canada Line</li> <li>~ Neighbourhood Traffic Safety Program</li> <li>~ Richmond Transit Program</li> <li>~ TravelSmart Program</li> <li>~ Richmond Cycling Network</li> <li>~ Commuter Skills Cycling Courses</li> <li>~ Awareness Campaigns (e.g., Island City by Bike tour)</li> </ul> </li> <li>• Innovative Park Development/Services               <ul style="list-style-type: none"> <li>~ Garden City Park</li> <li>~ Paulik Gardens Neighbourhood Park</li> <li>~ Richmond 2010 Trails Strategy</li> </ul> </li> <li>• Innovating Development Projects               <ul style="list-style-type: none"> <li>~ the Lotus</li> <li>~ Pinnacle</li> <li>~ No 3 Road Restoration Project</li> </ul> </li> </ul> <p><i>Fostering Sustainable Lifestyles</i></p> <ul style="list-style-type: none"> <li>• Water Metering Program</li> <li>• Recycling &amp; Solid Waste Program</li> <li>• Community Gardens</li> </ul>	<p><i>Resource Protection</i></p> <ul style="list-style-type: none"> <li>• Natural Areas Acquisition               <ul style="list-style-type: none"> <li>~ Richmond Nature Park</li> <li>~ NE Bog Forest</li> <li>~ Terra Nova Parks</li> </ul> </li> <li>• Environmentally Sensitive Areas Program               <ul style="list-style-type: none"> <li>~ Inventory</li> <li>~ Development Permit bylaw</li> </ul> </li> <li>• Urban Forest Management               <ul style="list-style-type: none"> <li>~ Urban Forest Management Strategy</li> <li>~ City of Richmond Tree By-law</li> </ul> </li> <li>• Riparian Areas Response Strategy</li> <li>• Pollution Prevention Program               <ul style="list-style-type: none"> <li>~ Pollution Prevention &amp; Spill Clean Up Bylaw</li> <li>~ Dangerous Goods Spill Response Plan</li> </ul> </li> </ul> <p><i>Engaging Community</i></p> <ul style="list-style-type: none"> <li>• Outreach Programs</li> </ul> <p><i>Well-Managed</i></p> <ul style="list-style-type: none"> <li>• State of Environment Reporting</li> </ul>	<p><i>Participatory Decision-Making</i></p> <ul style="list-style-type: none"> <li>• Advisory Committees (social, environmental, economic, agricultural)</li> <li>• Public Processes</li> </ul> <p><i>Sustainable Servicing</i></p> <ul style="list-style-type: none"> <li>• Customer Service-Based Delivery</li> <li>• Environmental Purchasing Policy/ Guidebook</li> <li>• Financial Sustainability Plan</li> <li>• City FleetSmart Program               <ul style="list-style-type: none"> <li>~ Green Fleet Policy</li> <li>~ Anti-Idling Program</li> <li>~ Alternatives Fuel &amp; Fuel Efficiency Program</li> <li>~ City Car-Pool Program</li> </ul> </li> <li>• High Performance Building Program               <ul style="list-style-type: none"> <li>~ High Performance Building Policy</li> <li>~ Energy Management Program</li> <li>~ Clean Green Team</li> </ul> </li> <li>• Employee Wellness Program</li> </ul> <p><i>Engaging Community</i></p> <ul style="list-style-type: none"> <li>• Outreach Programs</li> </ul> <p><i>Demonstrating Innovation</i></p> <ul style="list-style-type: none"> <li>• Richmond Oval Initiatives               <ul style="list-style-type: none"> <li>~ Green Building</li> <li>~ Living Landscape</li> <li>~ Construction Environmental Management Plan</li> </ul> </li> </ul>

Community Security & Enrichment	Creating Smart Communities	Healthy Ecosystem	Leadership Governance (Fiscally-Wise, Green, Participatory & Learning)
<i>Under Development</i>			
<ul style="list-style-type: none"> <li>• Affordable Housing ~ Affordable Housing Strategy</li> <li>~ Amenity Contribution Policy</li> <li>~ Secondary Suites Policy</li> <li>• Cultural Industries Strategy</li> <li>• Flood Management Strategy</li> <li>• Museum &amp; Heritage Strategy</li> <li>• Steveston Conservation Guidelines</li> </ul>	<ul style="list-style-type: none"> <li>• City Centre Area Plan – Transit-Orientated Development</li> <li>• East Richmond Drainage Strategy</li> <li>• Parks and Open Space</li> </ul>	<ul style="list-style-type: none"> <li>• Land Management – Environmental Clauses</li> <li>• Olympic Environmental Sustainability Strategic Plan</li> </ul>	<ul style="list-style-type: none"> <li>• Review of park construction practices to reduce materials and waste flows</li> </ul>
<i>Under Investigation</i>			
	<ul style="list-style-type: none"> <li>• District Geothermal Utility</li> </ul>	<ul style="list-style-type: none"> <li>• Living Landscape</li> </ul>	
<i>Past City Initiatives – Completed or No Longer Active</i>			
	<ul style="list-style-type: none"> <li>• 1-Tonne Community Challenge</li> </ul>	<ul style="list-style-type: none"> <li>• Mayor’s Environmental Awards</li> </ul>	<b>International Advocacy</b> <ul style="list-style-type: none"> <li>• Support of Kyoto Protocol</li> <li>• Sustainability Speaker Series</li> </ul>

### **Getting Results - City's Energy Management Program**

The City of Richmond has been improving its corporate energy use for over 15 years. This effort has resulted in significant results, including the City being acknowledged as the first Power Smart Certified municipality in BC in 2001.

The City's Energy Management Program has resulted in:

- reduced corporate energy usage (over 4,000,000 kWh/year in energy savings- enough to power over 300 Richmond homes)
- reduced greenhouse gas emissions and contribution to climate change (over 1,800,000 kg of CO<sub>2</sub>/year in reduced emissions)
- reduced operational costs (approximately \$600,000/year in savings)
- opportunity for Richmond to capitalize on securing grant and initiative funding

Today, Richmond is still the only recognized Power Smart Certified municipality in BC. In order to be proactive and to build on our success, the City is seeking to achieve a further reduction of 7% in hydro energy consumption over the next three years.

- 4.4 The City is also developing the Richmond Olympic Oval and is in preparation for being a host City for the 2010 Olympic Games – a Games whose bid was built on sustainability commitments.

*“A stronger Canada whose spirit is raised by its passion for sport, culture and sustainability.”*

VANOC's Sustainability Vision

## Leading Edge Innovation – The Olympic Oval Story

The Richmond Olympic Oval won't just be a showcase for sports, it will also be a model for cutting-edge green design. The high-profile facility provides an excellent opportunity for increasing the visibility of green building value and demonstrating how green development practices make strong business sense and result in community legacies to be proud of.

### Longevity

At its onset, the Oval is being built with a vision for the future. The Oval's flexible design means that while it will provide a first-class speed skating Oval for 2010 Olympic Games and beyond, it will also be able to be transformed into a multi-sport and wellness facility for servicing the needs of the local and broader community for years to come.

### Building & Site Performance

The City is building the Oval to meet leading edge high performance building standards – breaking new ground for athletic stadiums in the region and across the country.

The structure is being designed to protect site resources and qualify for silver status on the Leadership in Energy and Environmental Design Scale (LEED®). One of the key elements that will help earn the Oval its silver status and reduce long-term maintenance costs is the energy efficiency measures being undertaken. Rainwater will also be collected and used to help address the project's water needs and reduce demands on centralized drinking water supplies.

Another key element being incorporated into the Oval is the innovative use of salvaged pine-beetle-kill wood for its ceiling. With a size of about 100 metres by 200 metres, the roof is believed to be the largest surface ever covered in the once-discarded wood. While it won't address the pine beetle epidemic directly, showcasing the use of the wood will hopefully help encourage its use elsewhere.

Other timber used in the building will come from trees that were felled on the site to accommodate the building. Cuttings taken from the original oak trees that were planted on site when the area was owned by Richmond Pioneer Samuel Brighthouse will also be re-planted along the site's new Samuel Brighthouse Heritage Boulevard.

### Environmental Regeneration

While all these measures work to significantly reduce impacts, it is no longer enough to continue to solely conduct mitigation efforts. In an effort to move in a direction which is more restorative and replenishes ecological health, the Oval project includes an enhancement of the area's intertidal marsh and a biofiltration stormwater pond to improve surface water quality. The Oval will also feature a Fraser River Experiential Walk designed to highlight the area's natural assets and showcase sustainability development initiatives.

*“Ultimately, it is about creating a great place – a place which offers a legacy community amenity within a broader landscape that is enriching and inspiring for years to come.”*

## **Creating Legacy – Terra Nova Natural Area and Rural Parks**

With a combined area of almost 100 acres, the Terra Nova Parks form a significant migratory bird habitat area on the Pacific Flyway and make an important contribution to the Fraser River Estuary Ecosystem.

The Parks have been designed in partnership with the Richmond community and external agencies to create thriving landscapes which support a suite of ecological and social sustainability functions.

Notable features include:

- ~ a wide mixture of diverse landscapes, including fallow fields, hedgerows, remnant orchards, woodlots and waterways designed to integrate with public amenities
- ~ an emphasis on urban agriculture with over 100 individual community garden plots, a Demonstration Garden and dedication of space provided for the Sharing Farm, an organization who grows food for the Food Bank and educates about food security
- ~ a community school program engaging over 120 children in community gardening which will be supported by a demonstration kitchen and classroom planned for completion in 2007
- ~ heritage precinct representing early farming and fishing settlements in Richmond
- ~ public art and site interpretation to encourage learning and discovery of Richmond's unique history and area ecology.

*“The combination of existing environmental, agricultural and heritage features along with park amenities and programming is creating a rich legacy for the Richmond community today and for future generations.”*

- 4.5 The City is currently in the pursuit of developing of number of significant initiatives which feature various elements of sustainability. These include:
- an Affordable Housing Strategy
  - a City Centre Area Plan based on Transit-Orientated Development
  - an expansion of the City’s energy management program into the community in partnership with BC Hydro
  - an exploration of a district-wide energy utility
  - an exploration of a “living landscape” strategy for regenerating Richmond’s natural resources.

### **A New Approach – The City’s Affordable Housing Strategy**

Greater Vancouver has one of the highest housing costs in Canada and housing affordability continues to be a growing concern.

Richmond is committed to improving its supply of “affordable housing” and is presently updating its 1994 Affordable Housing Strategy. It is anticipated that a new Affordable Housing Strategy will be approved in the Spring 2007.

The updated Affordable Housing Strategy is being developed to:

- be based on Principles which include: Partnerships, Certainty and Financial Viability,
- establish City priorities and specific measurable targets (e.g., subsidized rental housing, affordable low market rental),
- outline City responsibilities (e.g., manage a City Affordable Housing Reserve, partner with senior governments, regional authorities, NGOs and developers),
- outline developer responsibilities (e.g., build, or in lieu of building, provide cash which the City will use for affordable housing projects),
- implement a range residential rezoning mechanisms (e.g., density bonusing, inclusionary zoning to encourage new single-family residential rezoning projects to include built affordable market rental housing units like secondary suites, flex-houses and coach houses on single family lots).

The anticipated benefits of the Updated Strategy include:

- more affordable housing will be built for a wide range of Richmond residents,
- City priorities will be addressed (e.g., subsidized rental housing, affordable low market rental)
- City and developer roles and responsibilities will be better defined,
- partnerships will be facilitated.

## **Turning the Tides – City Exploration of an On-Site Energy Utility**

The concept of an Energy District Utility is being explored for the area adjacent to the Richmond Oval. The Energy Utility is looking to harness on-site renewable energy sources to heat and cool adjacent residential buildings.

The Energy Utility is exploring integrating:

- geothermal energy extracted from or deposited to the earth
- the heat generated from making ice at the Oval
- the extraction of heat from domestic water before it "goes down the drain" at the Oval, and
- solar energy.

This energy would then be used for the heating and cooling of the adjacent residential buildings in the area.

Unique to the area adjacent to the Oval is a constant source of heat which would otherwise be wasted. The Richmond Olympic Oval has a refrigeration process that emits a large quantity of heat energy as it makes ice. The traditional method of dealing with this excess heat is to use a mechanical system to evaporate water (and the heat energy) into the air. Rather than wasting this energy, the City is exploring capturing this resource and using it to create a renewable heating and cooling cycle for servicing adjacent buildings. The amount of energy resource available is sufficient to service hundreds of residential units, significantly reducing demand on natural gas and hydro-electrical sources.

Although it can have higher initial capital costs, geothermal heating is one of the most efficient ways to heat a building with low ongoing operating costs.

Geothermal energy has the added benefit that it reduces reliance on non-renewable energy sources and requires no burning of fossil fuels at the heating site. This means a significant reduction in greenhouse gas emissions.

### ***Anticipated Results***

1. Potentially the world's most advanced ambient temperature Geothermal Energy District Utility.
2. A sustainable energy system that is easily expandable and can be replicated elsewhere in the City.
3. Greenhouse gas emissions reduced.
4. Lower costs for heating and cooling than any comparable development
5. Reduced community reliance on a non-renewal energy source.



## 5. The Next Steps..... a Positive Challenge

- 5.1 Richmond's existing mix of resources, including its natural ecosystem, strong agricultural base, compact urban form, regional transit services, economic advantages and socially-resourced community, establish a strong foundation for sustainable community development.
- 5.2 The list of the City of Richmond corporate accomplishments is also extensive, with a wide range of initiatives being developed throughout the organization.
- 5.3 Unfortunately, the results of global conditions such as climate change, and continued local challenges indicate that there remains an imperative for significant action throughout the world, at all levels.
- 5.4 A cursory review of the global conditions and challenges suggest that potential sustainable imperatives for the City of Richmond, include:
- climate change
  - agricultural and local economic viability, including reducing dependency on non-renewable energy sources
  - biodiversity and local ecosystem renewal
  - individual and community capacity.
- 5.5 The City of Richmond has the opportunity to build on its success and elevate its sustainability performance to new levels. Key directional changes include:
- i. the establishment of a strategic approach with dedicated sustained energies, professional expertise and cross-cutting strategies and initiatives aimed at most effectively advancing sustainability for the Corporation and broader community  
*~ a shift from incorporating specific sustainability elements into initiatives to a sustainability-based driven agenda*
  - ii. the development of sustainability-based economic, social and environmental action plans which fit seamlessly together  
*~ a shift from separate plans to a series of coherent plans working together*
  - iii. the establishment of a corporate sustainability-based decision-making model  
*~ a shift from decision-making based on balance and trade-offs to decision-making based on optimization and maximizing value*

## 6. Charting our Path

Sustainability is about transformational changes to create lasting community legacies.

The City of Richmond is well-poised to embrace the sustainability imperative:

*We are about leadership, innovation and embracement of change.*

*We are about seizing the opportunities of today to create visionary leadership and legacies for generations to come.*

*We are in the midst of making significant choices and decisions which will shape our future.*

By capitalizing on today's achievements and seeking those transformational changes which embed sustainability into the fabric of our community, the City of Richmond can become leaders in sustainability and help create and shape Richmond as an enduring and enriched community.

*“Many cities have policies, programs and projects related to community well-being, economic prosperity and environmental protection. What differentiates the leads in sustainability is the scope of their vision, the level of their commitment, the comprehensiveness of their approach, the collaborative nature of the process they are following and the innovativeness and creativity of the solutions they are employing”*

(EKOS 2000)

*.... charting our path*

