



**“Leading the way together to liveable
neighbourhoods, healthy people and
continuing prosperity”**

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Development Services Committee Presentation - January 25, 2011

Purpose

- To introduce new members and refamiliarize returning members of Council with the Greenprint and provide an update on progress to date
- To provide examples of how the Greenprint has evolved since draft approved, in principal, by Council in June 2010

What is the ?

- A community-driven, long-term sustainability plan promoting environmental health, social and cultural well-being and economic vitality
- Provides a vision and a range of clearly articulated priorities, objectives and recommendations
- Integrates Council priorities - growth, environment, transportation, diversity, core services, integrated leisure master plan, public safety
- Links priorities to implementation
- Sustainability indicators and monitoring
- Determines financial and other resources necessary to implement the plan
- Includes a Climate Action Plan for Milestone 3 in Partners for Climate Protection initiative
- Serves as Markham's Integrated Community Sustainability Plan to meet the requirements of the Federal Gas Tax Agreement

Timeline/Background



2008

Greenprint was initiated

2008-2010

Consultation with staff, the community, stakeholders and other levels of government

2010 June

Draft Greenprint approved, in principal, by General Committee

2010 Summer/fall

Consultation with staff, the community, stakeholders and other levels of government

2011 Spring

Final Greenprint for Council approval



Consultation on Greenprint



32 Inreach meetings with staff

27+ External outreach events



- Many positive comments and widespread support for the Greenprint from staff, stakeholders, social service groups and other levels of government
- Structure of report needed to be more clear
- Clarity desired around the role of the Greenprint within the strategic, corporate hierarchy
- Clarity desired around “what’s in it for me?”
- Report currently being rewritten to provide more clarity and to fill in gaps around financial, governance and implementation aspects

Greenprint Previous Layout

- **Vision**
- **Priorities**
- **Strategies**
 - Goals
 - Objectives
 - Recommendations

Greenprint New Layout

- **Vision**
- **Sustainability Pillars**
- **Priorities**
 - Objectives**
 - Recommendations**
- **Financial Discussion**
- **Governance**
- **Implementation Matrix**
 - Roles, timeframe, funding**

Sustainability Pillars



Environmental Health
Social & Cultural Well-Being
Economic Vitality

Individual Health

Identity + Culture

Shelter

Social Equity

Social & Cultural Well-Being

Food Security

Access + Mobility

Education + Skills

Economic Vibrancy

Materials Management

Water Efficiency

Ecosystem Integrity

Environmental Health

Energy + Climate

Individual Health



- **Promote and support the physical and mental health of Markham citizens**
 - Provide access to all public recreation programs for Markham citizens regardless of means
 - Adopt the World Health Organization's Age-Friendly Cities initiative
 - Connected, accessible and complete sidewalks, pathways, trails and bike routes are given maintenance priority and are maintained year round



Social Equity



- **Reduce the impact of household poverty**
 - Support microfinance partnerships and other supportive opportunities to establish and promote new jobs and businesses in partnership with business and other levels of government
 - Ensure a range of authentic and creative arts, cultural and heritage opportunities are meaningful, accessible and financially affordable to residents and visitors
 - Compact, complete development ensures there are work, live, play opportunities for all in all neighbourhoods



Education and Skills



- **Facilitate Lifelong Learning & Skills Development**

- Ensure barrier-free access to education, training and skills development by promoting affordability and language-skills development
- Seneca partnership – become their largest real world experience partner – work to make Seneca's campus' better integrated into Markham's community
- Establish, in partnership and collaboration with other levels of government and businesses, Markham University or other social innovation centre to support students, residents and businesses

Identity and Culture



- **Promote and celebrate all that makes Markham great**
 - Create a sustainable tourism strategy for Markham
 - Ensure a range of authentic and creative arts, cultural and heritage opportunities are meaningful, accessible and financially affordable to residents and visitors and contribute to the local economy
 - Implement a Public Art Policy that encourages public art in commercial and large residential projects, includes public art and funding in all Town new construction and retrofit projects



Food Security



- **Significantly increase the viability of local commercial food-growing and processing**
 - Plan and implement community gardens and other urban food growing opportunities
 - Work with other levels of government to promote and support on-farm food growing, processing and infrastructure
 - Encourage local food processing to be highly water and energy efficient



Energy and Climate

- **Net Zero Energy, Water, Waste and Emissions by 2050**
 - Reduce greenhouse gas emissions from buildings, transportation, waste and agriculture
 - Reduce dependency on potable water system by implementing dual water systems, cisterns and other innovative technology
 - Create carbon sinks to capture greenhouse gas emissions by planting and protecting trees, increasing natural areas, open space and agriculture



Materials Management

- **Achieve Zero Material Waste by 2050**

- Create a procurement policy that includes policies for closed-loop materials management
- Develop alternative energy sources, such as waste biofuels, for Markham District Energy
- Develop a culture of conservation and waste minimization— water, energy, materials, and other resources through education, social marketing, and access to real-time information



Economic Vitality



- **Promote green business development and business greening strategies for existing and new employers**
 - Work with industry to develop a Markham-based centre of excellence serving the green, social and creative sectors
 - Create “new economy” incubators and mentorship opportunities for new businesses
 - Create demand for local employment in sectors that rely on local resources and that improve resilience, such as agri-tourism, canning, preserving, cooking or baking, home and clothing repair



Access and Mobility



- **Create roads for all users**
 - Increase transportation system capacity through policies focused on creating network efficiency, increasing modal split, incentives for private sector transit operators, intelligent transportation technology, while not investing in road widening
 - Follow guidelines provided by the Ontario Road Ecology Group's "A Guide to Road Ecology in Ontario"
 - Equitably design streets so that non-automobile modes are viable year-round, safe, comfortable, and efficient



Shelter

- **Develop an affordable and special needs housing strategy**
 - **Work with York Region, developers, builders & other partners to increase the range of housing forms including stacked townhouses, apartments, social housing, rent-to-own, special needs, etc.**
 - **Provide incentives such as cost offsets, density bonusing, fee waivers, fast-tracked approvals to meet affordable housing targets**
 - **Allow and regulate '2nd suites' to offer an affordable and flexible community based rental housing option**



Water



- **Develop a water systems plan to integrate all water functions – treat water as a resource**
 - Potable water is used sparingly and only used to meet appropriate needs
 - Water supply, wastewater management and flood control infrastructure minimize energy requirements, and favour sustainably managed materials and resources
 - District water - harvested storm water is mixed with recycled processed waste water to supply local non-potable water for irrigation and toilet flushing, perhaps converging with MDEI
 - Wastewater bio-solids are readily assimilated in nature



Ecosystem Integrity



- **Increase biodiversity**

- Implement public and private development landscaping standards that integrate plant species and planting strategies that contribute food, attract songbirds, insects and other urban animals, including vertical landscaping, green roofs and other innovative landscapes
- Establish a dark sky policy to eliminate exterior lights in the community after 11 pm
- Adopt Fatal Light Awareness Program's Bird-Friendly Guidelines for all new and existing buildings, including an agreed-upon timeframe for existing buildings

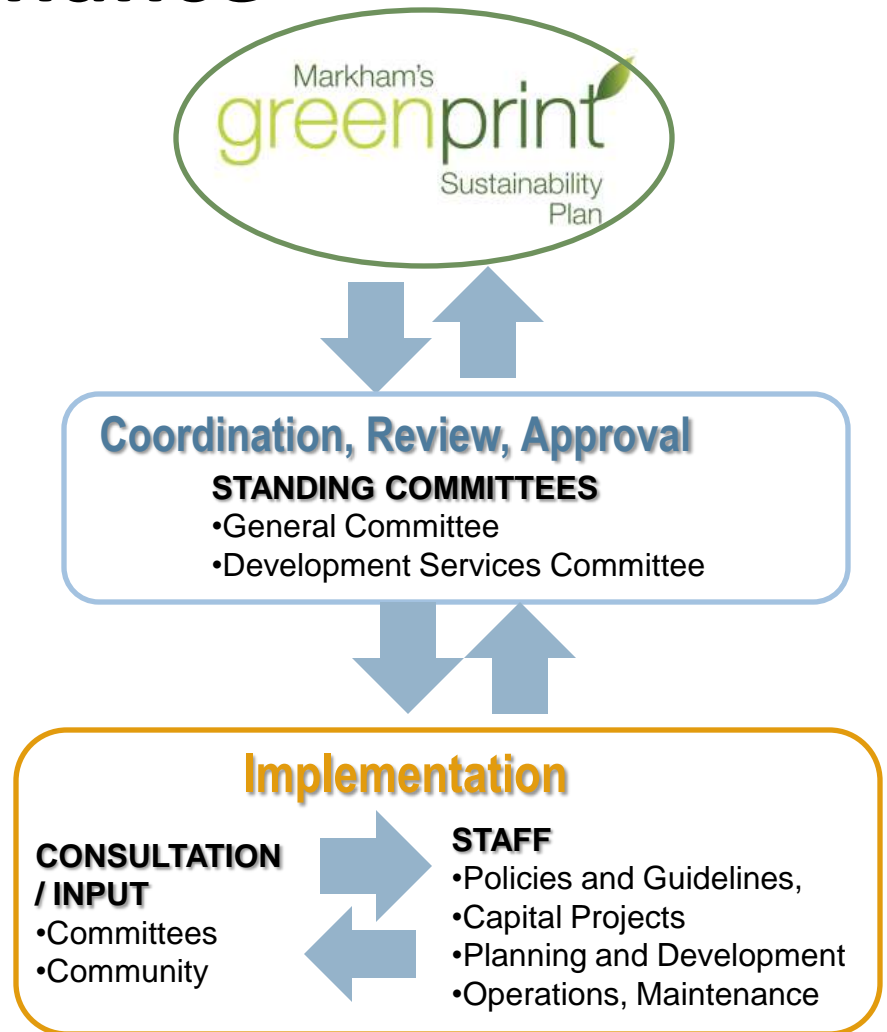


Financial Discussion

- Describes current municipal funding framework
- Provides recommendations for working more efficiently in collaboration and partnership with others
- Suggests a low carbon economy will require transformational change

Governance

- Describes who will coordinate, implement, monitor and report on Greenprint over time
- Highlights the process of implementation
- Recommends ongoing consultation and engagement with the community through the creation of task forces and working groups



Implementation Matrix

- Provides a detailed implementation timeframe around short, mid and long term opportunities
- Includes who is the lead in implementation and who is support
- Describes opportunities for funding
- Provides an integrated approach to demonstrate systems-thinking on priorities

RECOMMENDATIONS			ROLES					PROPOSED TIMING			Funding / Cost \$
	Meeting Key Priorities	X-refer	Comm. Services	Develop. Services	Corp. Services	CAO Office	External Partner(s)	2011-15	2015-25	2025+	
12. Objective -- Net Zero Energy, Water, Waste and Emissions by 2050											
12.1 Create carbon sinks to capture greenhouse gas emissions by planting and protecting trees, increasing natural areas, open space and agriculture	Energy & Climate, Ecosystem Integrity	13.2, 23.5	Lead	Support	Support		York Region, TRCA, Prov	X			Gas Tax, Capital...

Next Steps

- Draft final Greenprint to Council for review by end of January
- Draft final Greenprint presented in detail to General Committee February 28
- Approval of Greenprint Spring 2011
- Final report to FCM Green Municipal Funds by the end of June in order to receive final grant allocation

Markham's
greenprint
Sustainability
Plan

