sustainable kingston

DESIGNING OUR COMMUNITY'S FUTURE... TOGETHER

Baseline Indicator Report - Brief February 29th, 2012

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INTRODUCTION



Background

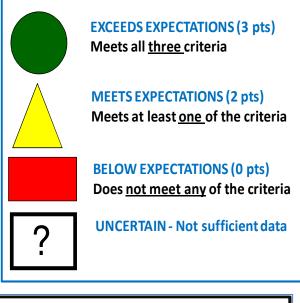
Planning was initiated and the Kingston community came together to share their ideas, time and enthusiasm to design our community's were assessed to present: what is being future. The Vision of Kingston – Canada's Most Sustainable City and the Sustainable Kingston Framework emerged!

The Framework is composed of three elements: • Meet or Exceeds Provincial/National levels, the plan, a website and the governing body. • Meets or Exceeds benchmark municipalities, The Sustainable Kingston Plan is community • Demonstrates progress compared to past. owned and its success is dependant on all Kingstonians playing а role in its implementation. The Plan is premised on the four interconnected pillars of sustainability: culture, economic, environment and social. Within each of the pillars there are theme areas with indicators to enable progress to be monitored. The website provides a repository of actions taken by the community and the governing body guides the *Plan*.

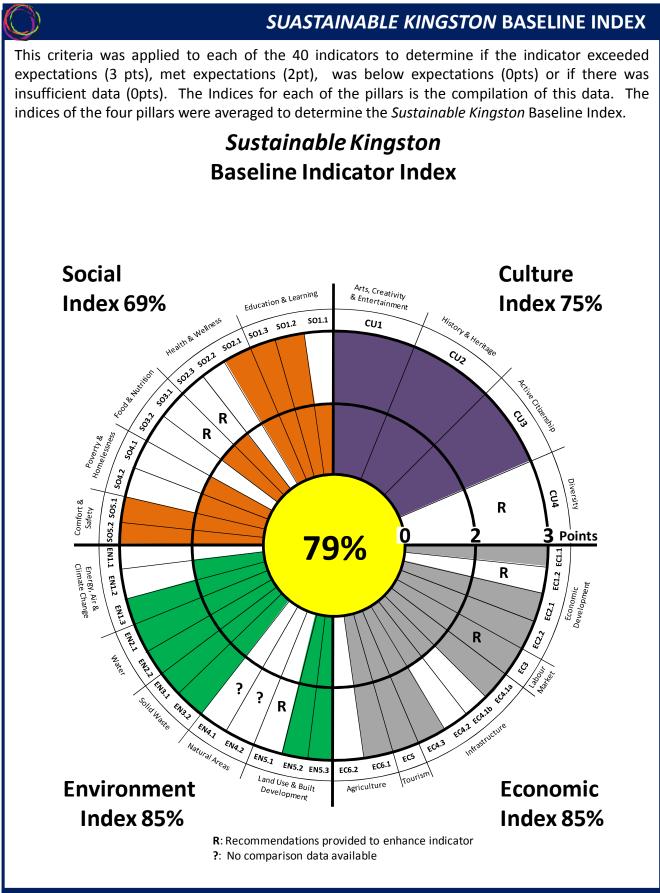
The purpose of the Sustainable Kingston Baseline Indicator Report is to present the most current status of each of the indicators identified within the Sustainable Kingston Plan. This brief provides the highlights of the Indicator report.

Indicator Report Overview

In 2007, a new cycle of Community Strategic The Sustainable Kingston Plan included four pillars, 20 themes and 40 indicators. Within the Indicator Report each of the 40 indicators measured, the source of the data, why is it being measured and where we are now? To determine where we are now, the data was compared against the following criteria:









Data Age and Source

The data collected to determine the 40 indicators came from 13 data sources. The age of the data ranged from 2006 to 2011. Thirty percent of the data set is over five years old from the Census 2006 data set.

Overview of Age and Source of Data Set							
Year	Percentage	Number of	Indicators	Data			
	of Data Set	Indicators		Source			
		11	CU1, CU4, EC1-1, EC1-2,	Census (2006)			
2006	30.0%		EC2-1, EC2-2, EC3, SO1-1,				
			SO1-2, SO1-3, SO4-2				
		1	EC6-2	Census (2006) Agri. Profile			
		8	EC4-1a, EC4-1b, EC4-2, EC4-3,	Municipal Performance			
			EC6-1, EN5-2, SO5-1, SO5-2	Measurement Program			
2009	32.5%	2	EN3-1, EN3-2	Waste Diversion Ontario			
		2	EN1-1, EN1-2	Community GHG Inventory			
		1	EC5	Ministry of Tourism, Culture &			
				Sport			
		7	CU2, EN2-1 EN4-1, EN4-2,	City of Kingston			
2010	25.0%		EN5-1, EN5-3, SO3-1				
		2	EC1-1, EC1-2	Labour Force Survey (Stats.Can.)			
		1	SO1-1	Can. Council of Learning			
		1	CU3	Elections Canada			
		2	SO2-1, SO2-2	KFL&A Health Profile (June, 2011)			
2011	12.5%	1	EN2-2	KFL&A Health Unit			
		1	SO3-2	Middlesex London Health Unit			
				(CMA data summary)			

Data Geographic Range

The data from 30 (75%) of the indicators was Kingston-specific. Nine (23%) of the data sets were from the Kingston Census Metropolitan Area (CMA) Kingston Frontenac Lennox & Addington and one (2%) of the data sets was from Kingston and the Islands.

Benchmark Municipalities and Data

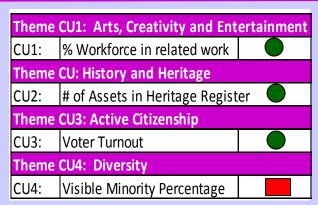
It was possible to benchmark 35 (75%) of the indicators. Benchmark municipalities were selected based on the following criteria: located in Ontario with a comparable population to Kingston, comparable data available and similar top three economic sectors. The benchmark municipalities are: London, Guelph, Oshawa and Peterborough. Where possible, the Kingston indicator was compared to the benchmark municipal average, Kingston's past performance as well as Provincial and National averages.

Indicator Benchmark Summary						
Compare to Past Compare to Benchmark		Compare to Both Past	No Comparisons			
Performance (Only)	Communities/CMA (Only)	Performance and Benchmark	Possible			
		Communities/CMAs				
CU2,EC5, EN2-1,	CU4, EN2-1, EC2-2, EC6-2,	CU1, CU3, EC1-1, EC3, EC4-1a,	EC1-2, EN4-1,			
EN2-2, SO3-1	SO1-2, SO1-3, SO2-1, SO2-2,	EC4-1b, EC4-2, EC4-3, EC6-1,	EN4-2, EN5-1,			
	SO4-2, SO3-2, SO4-1,SO5-1	EN1-1, EN1-2, EN1-3, EN3-1,	EN5-3			
		EM3-2, EN5-2, SO1-1, SO2-3,				
		SO5-2				
12.5%	30.0%	45.0%	12.5%			

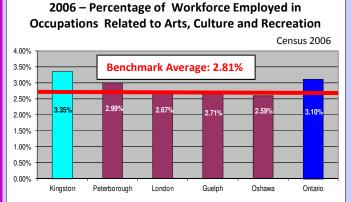
CULTURE PILLAR: Cultural Vitality

The focus of the Culture Pillar is the enhancement of both quality of life and quality of place. While art, culture and heritage bring beauty, depth and meaning to our lives, they also nurture individual and community identity, promote social cohesion and contribute to the creation of social capital. The Culture Pillar has four themes and four indicators.

75%



Theme CU1: Arts, Creativity and Entertainment In 2006, Kingston had the highest percentage of its workforce employed in jobs related to the arts, creativity and entertainment (3.35%) compared to the benchmark municipalities.



Theme CU2: History and Heritage

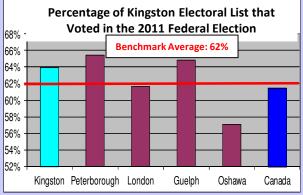
The number of registered and designated heritage assets increased from 975 in 2009 to 977 in 2010.





Theme CU3: Active Citizenship

Kingston and the Islands voter turnout increased by 2% from 62% in 2008 to 64% in 2011. During the 2011 Federal election, Kingston and the Island's voter turnout exceeded the national average (61%) and was comparable to the benchmark municipalities.



Theme CU4: Diversity

The percentage of Kingston's population that is part of a visible minority (7%) is lower than the benchmark average (10%) and much lower than the Provincial average (23%). It is recommended that this indicator be expanded to include other elements of diversity identified in the theme goals.

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ECONOMIC PILLAR: *Economic Health*

Kingston is a city that is a vital, dynamic, and sustainable economic centre where research, innovation, investment and business thrive together and where a variety of people want to visit, live, work and do business. The Economic Pillar has six Themes and 12 indicators.



Theme EC1: Economic Development							
EC1-1:	Unemployment Rate						
EC2-1:	Job Creation	?					
Theme	EC2: Community Economic D	evelopment					
EC2-1:	Employment by Sector						
EC2-2:	Entrepreneurship						
Theme	EC3: Labour Market						
EC3:	Employment by Occupation						
Theme	EC4: Infrastructure						
EC4-1a:	Wastewater Backups						
EC4-1b:	Water main Breaks	\triangle					
EC4-2:	Transit Ridership						
EC4-3:	Commuting Mode						
Theme	EC5: Tourism						
EC5:	Annual Tourism Revenues						
Theme	EC6: Agriculture						
EC6-1:	Preservation of Agr. Land						
EC6-2:	Agr. Revenues and Intensity						
Theme EC1: Economic Development:							

The Kingston Census Metropolitan Area (CMA)

had the lowest unemployment rate in 2009 and

2010 compared to the benchmark, Provincial

and National averages.

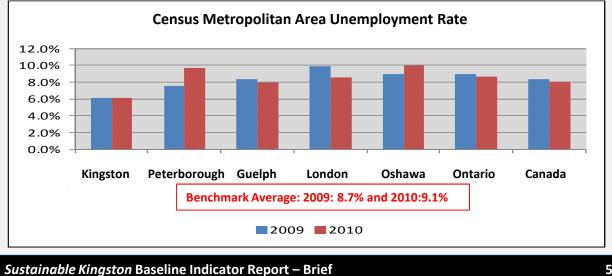


Theme EC2: Community Economic Development

Kingston is the least vulnerable, compared to its benchmark municipalities, to a decline in one of its top three economic sectors. With 10.7% of its population self employed, Kingston is comparable to its benchmark municipalities for fostering an entrepreneurial culture.

Theme EC3: Labour Market Development

Kingston has a well balanced distribution of its labour force by occupation.

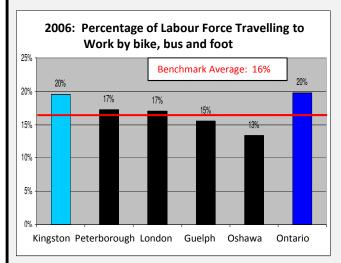


ECONOMIC PILLAR: Economic Health



Theme EC4: Infrastructure (Water, Wastewater & Transit)

Kingston's number of annual wastewater main backups has declined over time and scores favourably below the benchmark municipal average. While the number of water main breaks has decreased, Kingston is higher than the benchmark average. Kingston's transit ridership has increased with time but is below the benchmark average. In contrast, Kingston has the highest percentage of commuters travelling to work on bike, bus and foot.



Theme: EC5: Tourism

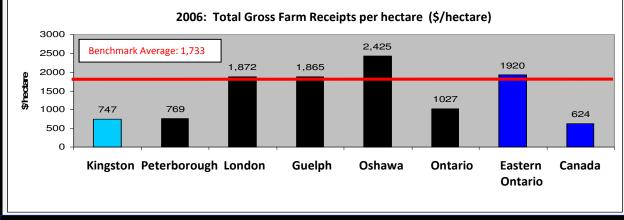
Kingston's annual tourism revenues (food, and beverages, transportation, lodging, retail and entertainment) increased from \$275.22 million in 2008 to \$286.90 million in 2009. This is a 4% increase.



Theme: EC6: Agriculture

Since 2005, Kingston has maintained 100% its land designated of for agricultural purposes. Gross farm receipts per hectare of land farmed is a measure of both the health of the agricultural sector based on economic return and the intensity of the land use. While Kingston has a higher gross farm receipt per hectare than reported at the National level, it is the lowest of the benchmark municipalities and is below the Provincial average.





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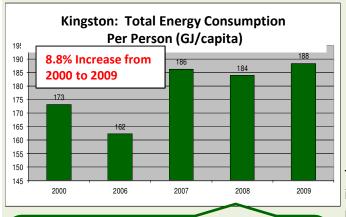
ENVIRONMENT PILLAR: *Environmental Responsibility*

The Environment Pillar has a first principal position. Global environmental challenges (climate change, dwindling non-renewable resources, shrinking natural habitats, and diminishing biodiversity) have economic, social and cultural elements. The Environment Pillar has five themes and 12 indicators.

85%

Theme	EN1: Energy, Air and Climate	Change
EN1-1:	Energy Use	
EN1-2:	Greenhouse Gas Emissions	
EN1-3:	Air Quality	
Theme	EN2: Water	
EN2-1:	Daily Residential Use	
EN2-2:	Beach Water Quality	
Theme	EN3: Solid Waste	
EN3-1:	Residential Diversion	
EN3-2:	Residential Landfill Waste	
Theme	EN4: Natural Areas	
EN4-1:	Dense Treed Areas	?
EN4-2:	Green Space	?
Theme	EN5: Land Use and the Built I	Invironment
EN5-1:	Mix of Land Use	?
EN5-2:	Dwelling Growth Location	
EN5-1:	Urban Dwelling Density	

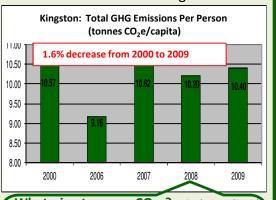
Theme EN1: Energy, Air and Climate Change Kingston's energy use increased by 16% from 2000 to 2009. During this same period, the energy use per capita increased by 8.8% and for 2007 was above the benchmark average.



What is a Gigajoule? A Gigajoule (GJ) is a measure of energy. All the types of energy consumed by the community (i.e. electricity, natural gas, heating oil, and propane) have been converted to GJ to allow for a measure of total energy consumption. There is approximately 6 GJ of energy in the combustion of one barrel of oil.



Kingston's greenhouse gas (GHG) emissions increased by 5% from 2000 to 2009, while the per capita GHG emissions decreased by 1.6%. In 2007, Kingston's GHG emissions/capita was below the benchmark average.



What is tonnes CO_2e ? Carbon dioxide equivalent (CO_2e) is a measure used to compare the emissions from various greenhouse gases based on their global warming potential (GWP). For example, methane has a GWP that is 21 times that of carbon dioxide. This equivalency allows all of the emissions from various GHGs to be added.

The Air Quality Index (AQI) is an indicator of air quality based on air pollutants that have an adverse effect on human health and the environment. An AQI greater than 50 indicates poor air quality. In 2011, Kingston had zero days where the AIQ was greater than 50.

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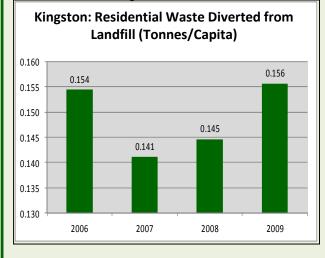
ENVIRONMENT PILLAR: *Environmental Responsibility*

Theme EN2: Water

The average Kingston residential daily water consumption decreased by 4% from 220.5 liters/capita in 2009 to 211.6 liters/capita in 2011. There was a significant improvement in the number of beach closure days in 2011 compared to previous years

Theme EN3: Solid Waste

In 2009, Kingston's residential diversion rate of 0.156 tonnes/capita was above the benchmark average. Kingston's 2009 tonnes/capita of residential waste disposed of in landfill showed improvement to previous years and was comparable to the benchmark average.



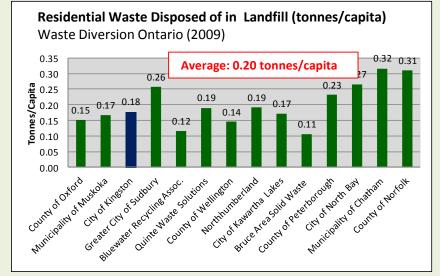


Theme 4: Natural Areas

In 2009, Kingston had a tree canopy area of 28% and in 2011, 2.5% of Kingston's area was parkland and protected areas. Historic data is not available for comparison.

Theme 5: Land Use and the Built Environment

Approximately 54% of Kingston's land area is rural agricultural. In 2009, the percentage of new residential units within settlement areas was 98% which is comparable to Peterborough and Oshawa. The Kingston urban residential dwelling density increased from 21.7 dwelling units/ha in 2006 to 23.1 dwelling units/ha in 2010.



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SOCIAL PILLAR: Social Equity

69%

Social agencies and citizens will raise awareness about social needs and will engage both citizens and community partners to plan and act in response to these needs. The Social Pillar has five themes and 12 indicators.

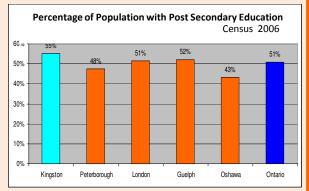
4				
Theme SO1	: Education and Learning			
SO1-1:	Composite Learning Index	\triangle		
SO1-2:	Educational Attainment			
SO1-3	Highschool Graduation Rate	e 🔵		
Theme SO2: Health and Wellness				
SO2-1:	Access to Physicians			
SO2-2:	% Obese or Overweight			
SO2-3:	Recreation Program Hours	\triangle		
Theme SO3: Food and Nutrition				
SO3-1:	# of Community Gardens	\triangle		
SO3-2:	Cost of Nutritional Food			
Theme SO4: Poverty and Homelessness				
EN4-1	Low Income Households	\triangle		
EN4-2:	Housing Affordability	\triangle		
Theme SO5	: Comfort, Safety and Inclus	ion		
EN5-1:	Crime Severity Index			
EN5-2	Weighted Clearance Rate			

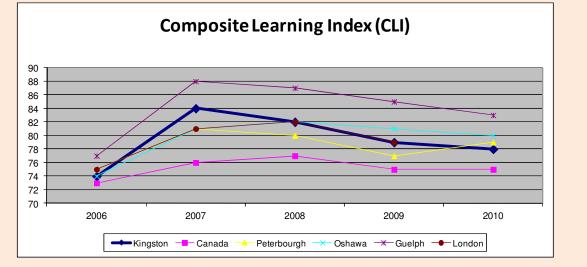
Theme SO1: Education and Learning

The Composite Learning Index (CLI) is a statistical measure that reflects how people learn at work, home, school and in the community. In 2010, Kingston's CLI was the lowest of the benchmark municipalities but was higher than the national average.



In comparison to the benchmark municipalities and the Provincial 2006 averages, Kingston had the highest population percentage that had a post secondary education (55%) and that had graduated from high school (82%).



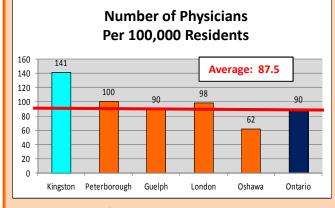


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SOCIAL PILLAR: Social Equity

Theme SO2: Health and Wellness

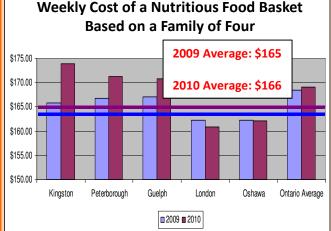
In 2011, KFL&A Health Unit had the highest ratio of physicians to residents compared to benchmark and Provincial averages.



In 2011, 58% of the Kingston population was obese or overweight, which was just higher than the benchmark and national averages. In 2009, the number of Kingston's municipal recreational program hours increased in comparison to previous years but was the lowest in comparison to the benchmark average.

Theme SO3: Food and Nutrition

In 2009 and 2010, Kingston had 7 community gardens. In 2010, the KFL&A Health Unit had the highest cost of a nutritious food basket.



Theme SO4: Poverty and Homelessness

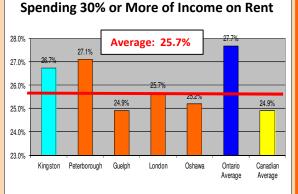
Kingston has the same percentage of households below the low income cut-off as the Province (11.1%), but is just above the benchmark average.

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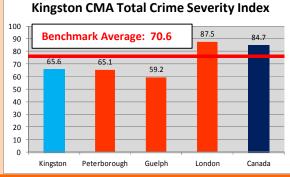


In 2006, 26.7% of the Kingston CMA population had households that spent 30% or more of their income on gross rent and on owner's major payment. The Kingston CMA is just higher than the benchmark average.

Percentage of Households in CMA



Theme SO5: Comfort, Safety and Inclusion In 2009, the Kingston CMA Crime Severity Index (CSI) and the Weighted Clearance Rates (crimes solved) were better than the benchmark averages.



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Front and Back Cover Photos provided by City of Kingston

On June 15th, 2011, students from the Creative Arts FOCUS program at QECVI used the Springer Market Square as their canvas to sketch out *Sustainable Kingston*!



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