

## CEP Community Strategy Update

**Table 5 – CEP Community Strategy Summary**




Strategy #	Strategy Title	Lead Department	Status
1	Create a Deep Energy Retrofit Program for Existing Homes	Environmental Sustainability and Climate Change (ESCC)	FCM Municipal Climate Innovation Program (MCIP) Grant received. Consultant was retained in February 2019. Full report to be presented to council Feb 2020.
2	Continue to Ensure Compliance with the Ontario Building Code for New Residential Development	Building	Plans Examiners ensure compliance with energy code requirements outlined in the OBC prior to issuance of a building permit. Building systems are reviewed by Building Inspectors at various phases of construction.
3	Integrate Energy Performance Labelling for Homes and Buildings	ESCC	Select City facilities have been assessed using an online tool provided by Natural Resources Canada. The results are being used as tools for public engagement and education.
4	Create a Net Zero Neighbourhood as an Opportunity for Transformative Change at the Neighbourhood Scale	Planning	ESCC staff is working with Planning to incorporate climate change and energy planning language into the Official Plan.
5	Create a Deep Retrofit Program for Existing Businesses and Public Buildings	ESCC	The study being completed under Strategy 1 (residential) will form the basis for discussion for other buildings. Starting with Strategy 1 provides a context for this Strategy where the procedure is more complex as the building types vary more.
6	Continue to Ensure Compliance with the OBC for New Commercial and Institutional Development	Building	Plans Examiners ensure compliance with energy code requirements outlined in the OBC prior to issuance of a building permit. Building systems are reviewed by Building Inspectors at various phases of construction.

7	Continually Increase Industrial Efficiency Energy	ESCC	ENWIN has fulfilled their requirement under their energy conservation mandate. Energy efficiency programs are continuing through IESO but managed through Toronto. There are no local representatives.
8	Reinforce a Windsor Network and Mentorship Program for Transfer of Best Practices	ESCC	In collaboration with Enwin and Enbridge (Union Gas) a Sustainable buildings workshop was held in May 2019.
9	Encourage a Modal Shift towards Public Transit	Transit Windsor	Service Delivery Review is currently underway visit <a href="http://MoreThanTransit.ca">MoreThanTransit.ca</a> for more information.
10	Develop and Implement an Active Transportation Master Plan	Transportation Planning	The Active Transportation Master Plan was approved by City Council on July 22, 2019. The plan includes a target of 25% mode split by 2041 shifting from current 10%.
11	Adoption of Electric Vehicles and Alternative Fuel Vehicles	ESCC / Asset Planning	The Province of Ontario has cancelled the EV vehicle incentives, however, the Federal government has introduced a new incentive which includes funding for EV charging. The City of Windsor has submitted an Expression Of Interest to the federal government for charging infrastructure funding.
12	Continue to Advance Smart Energy Systems through Effective Land Use Planning	Planning	ESCC staff is working with Planning to incorporate an Energy Strategy component into the development process. Also looking at how to provide energy planning incentives for new development.
13	Designate and Plan District Energy Areas	ESCC	Windsor Utilities Commission owns the current District Energy network. The ESCC Office has been collaborating with staff at WUC/ENWIN to address current challenges and identify how the City of Windsor can support District Energy.

14	Create a Gordie Howe International Bridge Low-Energy Development Area	Planning	ESCC staff is working with Planning to incorporate climate change and energy planning language into the Official Plan.
15	Encourage the Installation of Solar Arrays	ESCC / Asset Planning	The Province of Ontario no longer permits virtual net metering for solar installations. However, solar PV can still be net metered at buildings.
16	Develop a Community Education and Communications Campaign	ESCC	Education and Engagement is ongoing. Opportunities in 2019 included the Windsor Home and Garden Show, Windsor-Essex Earth Day and the Sustainable Building workshop
17	Detailed Energy Mapping	ESCC	Underway as part of Strategy #1
18	Engage a CEP Project Administrator	ESCC	The CEP Administrator has been retained under a 2-year temporary contract. It is recommended that this position be made permanent during 2020 budget deliberations.
19	Facilitate the Community Implementation Task Force	ESCC	Community Task Force has recommitted for the implementation of the CEP.
20	Monitoring and Verification	ESCC	This report is the first monitoring report completed for the CEP. A similar report is expected to City Council every 2 years.

**Table 6 – Community Performance Indicators**

Community Performance Indicator	2014	2018	Trend
<i>Primary Indicators</i>			
Total energy use	39016987 GJ/yr	41,309,406 GJ/yr	
Total energy use per capita	180 GJ/yr	190.2 GJ/yr	
Percent change in energy per capita from baseline	NA	2.86%	
Total energy use per job	251.3 GJ/job	251.1 GJ/job	
Percent change in energy use per full time job from baseline	NA	0.01%	
Total GHG emissions	1,812,728 tCO2e/yr	1,945,603 tCO2e/yr	
GHG emissions per capita	8.35 tCO2e/yr	8.96 tCO2e/yr	
Percent change in GHG emissions from CEP baseline	NA	7.33%	
<i>Secondary Indicators</i>			
Total Energy Residential	9,029,158 GJ/yr	8,570,447 GJ/yr	
Total Emissions Residential	366,188 tCO2e/yr	336,102 tCO2e/yr	
Emissions Residential as percent of total	20.2%	17.3%	
Residential Energy Intensity	NA	0.93 GJ/m <sup>2</sup>	
Total Energy Commercial and Institutional	9583784 GJ/yr	8,678,587 GJ/yr	
Total Emissions Commercial and Institutional	316,383 tCO2e/yr	266,699 tCO2e/yr	
Emissions Commercial and Institutional as percent of total	17.5%	13.7%	
Total Energy Industrial	9,524,808 GJ/yr	12,926,362 GJ/yr	
Total Emissions Industrial	385,206 tCO2e/yr	553,582 tCO2e/yr	
Emissions Industrial as percent of total	21.3%	28.5%	
Total Energy On-Road	10,879,237 GJ/yr	11134010 GJ/yr	
Total Emissions On-Road	732,971 tCO2e/yr	748,130 tCO2e/yr	
Emissions On-Road per million km travelled	278.2 tCO2e/million km travelled	343.9 tCO2e/million km travelled	

Change in Emissions On-Road per million km travelled over baseline	NA	3%	
Emissions On-Road as percent of total	40.4	38.5%	
Total Emissions solid waste	NA	41,090 tCO2e/yr	
Solid Waste Emissions as percent of total	NA	2.1%	
Total Installed distributed Solar PV	NA	62 MW	