APPENDIX D: COMMUNITY LOCAL ACTION PLAN

Note: All actions listed in this Local Action Plan table are actions identified in the Ajax Integrated Community Sustainability Plan that relate to greenhouse gas reductions. Additional actions are listed in this table from the Town of Ajax Official Plan that also relate to greenhouse gas reductions.

<u>Goal</u> In 2055 <u>Strategi</u> Strategy Strategy	Legend Low = <100 tonne reduction Medium = 100 – 1,000 tonnes High = >1,000 tonnes reduction Non-direct = no direct GHG reductions from action, but supportive of activities that lead to GHG reductions							
Sector	Potential Actions	Time	frame	Respo	nsibility	Potential	Estimated	Additional Information
		Immediate (<5 yrs)	Longer-term (>5 yrs)	Lead	Potential Partners	GHG Reductions	Cost	
All	Advocate for stronger regulations to reduce air pollution.	~		Town of Ajax	Other levels of government	Non-direct	Nominal	
All	Participate in inter-municipal clean air initiatives.	~		Town of Ajax	Other levels of government	Non-direct	Nominal	Link to Official Plan (2.1.3a)
ICI	Develop strategies to invest in energy efficient vehicles and low emissions equipment for private sector applications.	~		Community groups, institutions, businesses		Approx. 50% reduction compared to non- green vehicle ¹	Nominal to develop strategy	
ICI	Encourage businesses to provide incentives to their employees for employees to purchase green vehicles.	~		Institutions, businesses		Approx. 50% reduction compared to non-	Incentive dependent on level.	The Province of Ontario offers an EV incentive program that can provide \$5,000 to \$8,500 towards the purchase or lease of a new plug-in hybrid electric

					green vehicle ²		or battery electric vehicle.
Trans	Assess existing Anti-Idling By-laws and level of compliance (e.g. idling surveys) and determine areas for improvement.	✓	Town of Ajax		Non-direct	Nominal	
Trans	Implement awareness campaign regarding the Town's Anti-Idling program and the negative environmental impacts of vehicle idling.	~	Town of Ajax	Community groups, institutions, businesses; other levels of government	Low (~200Kg/ vehicle/ year) ³	\$25,000/ year	
Trans	Develop partnerships with Durham Transit and Public and Separate School Boards to institute Idle-Free Zones.	~	Town of Ajax	Durham Region; community groups, institutions, businesses	Low (~200Kg/ vehicle/ year) ⁴	Nominal	Link to Official Plan (4.1.1f)
Trans	Create preferred parking spaces at Town facilities for visitors that drive hybrid and electric vehicles.	~	Town of Ajax		Non-direct	Nominal	
Trans	Investigate the feasibility of installing electric vehicle charging stations at Town facilities.	V	Town of Ajax	Plug'nDrive Ontario	Non-direct	Charging station approximat ely \$5,000	Link to Official Plan (2.1.3i)
Trans	Investigate the feasibility of installing electric vehicle charging stations at select locations around Ajax.	✓	Community groups, institutions, businesses	Plug'nDrive Ontario	Non-direct	Charging station approximat ely \$5,000	
Trans	Promote 'car-free' special events or festivals.	V	Town of Ajax	Community groups, institutions, businesses	Non-direct	Nominal	
Trans	Advocate for the transition of Durham Region Transit to hybrid or fuel efficient vehicles where feasible.	\checkmark	Durham Region; Town of Ajax	Community groups, institutions,	10-20% reduction ⁵	Nominal to advocate; Hybrid	Link to Official Plan (4.3l)

Trans	Continue to provide incentives to taxi companies that	✓	Town of Aiax	businesses	Medium	model buses are ~\$150,000 more than convention diesel \$100 fee/	
Trans	use eco-friendly vehicles.		Town of Agax		(~400 tonnes) ⁶	licence/ year	
Other	Create a policy to restrict the use of gas powered lawn and garden equipment on smog days.	✓	Town of Ajax	Community groups, institutions, businesses	Non-direct	Nominal	
Other	 Implement the Urban Forest Management Plan to enhance the urban forest in Ajax: Municipal arboricultural standards and practices, Tree establishment and urban forest enhancement, Urban forest pest management; Through the planning and development process; Developing a Private Tree By-law; Protecting and enhancing wooded natural areas, Awareness, engagement and partnerships. 		Town of Ajax	Community groups, institutions, businesses	Low- Medium 1 tree captures ~ 0.734 t GHGs over an 80 year lifecycle ⁷	\$50,000/ year	
Other	Develop education packages about the Town's urban forest that offer information to homeowners and the business community.	V	Town of Ajax	Community groups, institutions, businesses	Non-direct	\$25,000/ year	Link to Official Plan (2.1.3)
Other	Define urban heat island action areas for targeted greening.	✓	Town of Ajax	Community groups, institutions, businesses	Non-direct		Official Plan (2.1.3c)

		ENER	GY					
Goal In 2055 Strategy Strategy Strategy Strategy Strategy	Legend Low = <100 tonne reduction Medium = 100 – 1,000 tonnes High = >1,000 tonnes reduction Non-direct = no direct GHG reductions from action, but supportive of activities that lead to GHG reductions							
Sector	Potential Actions	Time Immediate	frame Longer-term	Respor Lead	nsibility Potential	Potential GHG	Estimated Cost	Additional Information
		(<5 yrs)	(>5 yrs)		Partners	Reductions		
All	Work with all segments of the development sector to encourage and promote 'green' or sustainable building practices through design and retrofit of development and site alteration.		×	Town of Ajax	Community groups, institutions, businesses	Medium – High (15 – over 500 tonnes) ⁸	Nominal	Link to Official Plan (2.1.2, 2.1.5, 2.5.1i, 2.5.3)
ICI	Continue to redevelop the Steam Plant as a district energy facility that promotes energy efficiency and reduced greenhouse gas emissions.	~		Community groups, institutions, businesses	Town of Ajax	High (~7,800 tonnes) ⁹	Private information	Link to Official Plan (2.1.9d) 25 megawatt – enough energy to power 6,000 households annually and will produce and distribute steam and hot and cold water
ICI	 Partner with Durham Sustain Ability on the delivery of Durham Partners in Project Green (DPPG) program: Referral services for energy efficiency assessments and financial incentives Procurement assistance Education, training, resources 	✓		Durham Region	Town of Ajax	Medium (~200-300 tonnes) ¹⁰	Durham Region: \$25,000/ year; Ajax: \$5,000/ year	Durham Region LAP Program run by Durham Sustain Ability

	Networking							
ICI	 Continue with initiatives that encourage business energy conservation and efficiency: Demand Response Small business enegy-efficient lighting and equipment incentive program Energy-efficient retrofit incentive program peaksaver Plus program Audit funding incentive program Existing Building Commissioning funding program for Chilled Water Systems High Performance New Construction design assistance and funding program Process and Systems program for funding toward major energy-saving upgrade projects Training and support initiatives 	✓		Veridian	Town of Ajax, Boards of Trade	Low – Medium (100 tonnes/ year) ¹¹	~\$100,000/ year	
ICI	Implement measures to reduce the energy consumed in evenings including advertising signage and overnight lighting.	~		Utilities; community groups, institutions, businesses	Town of Ajax; other levels of government	Low	-	
ICI	Continue to provide support and incentives to social and assisted housing to improve energy efficiency.	~		Upper tier governments – Provincial and Federal	Enbridge; Veridian	Low (~100 tonnes/ year) ¹²	Included in cost estimate for ICI program above	
ICI & Res	Work with senior levels of government to enhance requirements for building construction, as well as greenfield/brownfield development to meet energy performance targets.		✓	Provincial government	Town of Ajax; Durham Region	Non-direct	Nominal	Link to Official Plan (2.1.5)
ICI & Res	Work with Durham Region to develop and adopt a Durham Green Building Guideline/Standard for all new construction with promotes a higher level of energy	~		Durham Region	Town of Ajax	25%-60% energy reduction	\$65,000	Durham Region Local Action Plan (LAP) Link to Official Plan (2.1.2,

	efficiency than the current Ontario Building Code.					depending		2.1.5)
						on		
101.0					- (standard	N 1	
	Promote renewable energy incentive programs from	v		Upper tier	Town of Ajax	Non-direct	Nominal	
Res	utilities and other levels of government.			governments	Taxing of Alary	LL: -h		Durken Desien LAD
	Encourage/support Durnam Region to create an		×	Durnam	Town of Ajax	High	\$68,000,000	Durnam Region LAP
Res	Design and funded through private partnerships			Region;		(*31,880	(entire	LINK to Official Plan (2.1.5g)
	Region and funded through private partnerships.			husinoss		tonnes)	project)	100NANA of alactricity
				Dusiness				reportion
	Work with Durham Region on the creation of a Smart			Durbam	Town of Aiax	Unknown	Unknown	Durbam Region LAR
Res	Grid Initiative to demonstrate key components of smart		, , , , , , , , , , , , , , , , , , ,	Region	TOWITOTAJAA	UIKIIUWII	UIKIIUWII	Durnam Region LAP
inc.s	grid technology			Region				
Dee	Continue with initiatives that ansaurage home energy				Town of Alon		~ 6110.000/	
Res	continue with initiatives that encourage nome energy			Voridian/	TOWN OF AJAX		\$110,000/	
	Fridge and freezer nickup			Enbridge		tonnes/	year	
	Heating and cooling system ungrade incentives			LIIDIIUge		vear) ¹⁵		
	neating and cooling system upgrade incentives neaksaver DLLIS program					yeary		
	Coupons for energy efficient products							
	Equipment exchange events							
Res	Continue with Home Weatherization Retrofit incentive	✓		Enbridge	Town of Aiax	Medium ¹⁶	Included in	
	program to improve energy efficiency of homes.			Linguage	i o un or , gax	median	cost	
							estimate for	
							residential	
							program	
							above	
Res	Develop an information package for homeowners to	~		Community	Town of Ajax	Non-direct	Nominal	
	identify opportunities to conserve energy (smart			groups,				
	meters, LED lighting, tree planting, geothermal			institutions,				
	heating/cooling, renewable energy, appliance			businesses				
	selection).				-			
Res	Work with Durham Region on the development of a	✓		Durham	Town of Ajax	Medium	Unknown	Durham Region LAP
	comprehensive residential energy retrofit program:			Region;		(~200-300		Link to Official Plan (2.1.5e)

		- T					
	 Energy audit and investment plan (building envelope, HVAC, appliance, lighting, water heating, renewable energy retrofits Financing plan – grant programs and financing mechanisms Assistance with contractor selection Repayment of loans via property taxes or other 		Toronto Atmospheric Fund; Clean Air Partnership		tonnes) ¹⁷		
	mechanismsHome energy label						
Res	Continue with Time-of-Use billing for electricity use to encourage conservation.	✓	Veridian	Town of Ajax	Low	Nominal	
Res	Continue and expand program to make Watt Reader monitors available at public libraries to help residents understand how much energy their products consumer and manage use accordingly.	✓	Veridian	Town of Ajax	Non-direct	Nominal	
Trans	Promote the purchase of energy efficient vehicles.	✓	Community groups, institutions, businesses	Town of Ajax; other levels of government	Non-direct	Hybrid sedans: \$25,000/veh icle Hybrid SUVs: \$40,000 Hybrid pick- up trucks: \$45,000/veh icle	The Province of Ontario offers an EV incentive program that can provide \$5,000 to \$8,500 towards the purchase or lease of a new plug-in hybrid electric or battery electric vehicle

	TRANSPORTATION											
Goal In 2055 of peop Strategy Strategy automo Strategy Strategy	Legend Low = <100 tonne reduction Medium = 100 – 1,000 tonnes High = >1,000 tonnes reduction Non-direct = no direct GHG reductions from action, but supportive of activities that lead to GHG reductions											
Sector	Potential Actions	Time	frame	Respor	nsibility	Potential	Estimated	Additional Information				
		Immediate (<5 yrs)	Longer-term (>5 yrs)	Lead	Potential Partners	GHG Reductions	Cost					
Trans	Implement complete streets through retrofits to existing roads as provided within the Pedestrian and Bicycle Master Plan.	1		Town of Ajax	Durham Region, MTO, Metrolinx	10 - 15% reduction in auto traffic –	\$25,000 - \$75,000/ year	Link to Official Plan (4.4)				
Trans	Expand and connect the trails and pathways network.	V		Town of Ajax; Durham Region	Community groups, institutions, businesses	shift to alternative modes of	\$250,000 - \$1,000,000 /year	Link to Official Plan (2.1.3g, 4.4)				
Trans	Provide maps of cycling routes to the public.	√		Town of Ajax		transportat ion	\$2,000/ year	Link to Official Plan (2.1.3g)				
Trans	Investigate appropriate major intersections for the installation of bike boxes.	✓		Town of Ajax; Durham Region		(increased transit ridership,	Nominal					
Trans	Install biker lockers and/or canopies on bike racks at Town facilities.	✓		Town of Ajax		walking, \$1,200- cycling) \$1,600 fc 2 bike storage locker	\$1,200- \$1,600 for 2 bike storage locker	Link to Official Plan (2.1.3g)				

Trans	Investigate the establishment of a bike rental program.	~		Community groups, institutions, businesses	Town of Ajax	Nominal to explore; cost to implement depends on application	Link to Official Plan (2.1.3g)
Trans	Continue promotion of bike safety for all riders.	~		Town of Ajax Durham Region, Durham Regional Police	Community groups, institutions, businesses	Nominal – Ongoing	
Trans	Integrate active transportation with public transit (e.g., bike racks on buses).	V		Durham Region, Metrolinx	Town of Ajax	-	Link to Official Plan (2.1.3g, 4.1.1)
Trans	Continue to and enhance implementation of Transportation Demand Management initiatives as outlined in the Town of Ajax Transportation Master Plan Update.	~		Town of Ajax	Community groups, institutions, businesses	Funded through the annual budget process	Link to Official Plan (4.1.1i)
Trans	Ensure that all development applications for major commercial, employment or institutional development include a TDM strategy.	V		Town of Ajax	Community groups, institutions, businesses	Nominal	Link to Official Plan (4.1.1j)
Trans	Continue and enhance promotion of transit, carpooling, and active options for commuting (e.g., through Smart Commute Durham).	✓		Other levels of government	Town of Ajax	Funded through the annual budget process	Link to Official Plan (4.3)
Trans	Improve local connections with other transit systems (e.g., GO Transit, TTC, etc.).		\checkmark	Durham Region, Metrolinx	Town of Ajax	-	Link to Official Plan (4.3)
Trans	Improve bus route coverage (e.g., by providing stops in		\checkmark	Town of Ajax,		-	Link to Official Plan (4.3)

	convenient locations, running Durham Transit on a grid			Durham				
	network, increasing schedule frequency for local events			Region,				
	and attractions, etc.).			Metrolinx				
Trans	Encourage transit ridership (e.g., by increasing bus	✓		Durham			-	Link to Official Plan (4.3)
	frequency, reducing transit fares, occasionally offering			Region,				
	free service, etc.).			Metrolinx				
Trans	Explore use of smaller buses on routes with lower	✓		Durham			-	Link to Official Plan (4.3)
	ridership.			Region				
Trans	Explore service provision opportunities beyond buses.	✓		Durham			-	Link to Official Plan (4.3)
				Region				
Trans	Implement shuttle services for inter-municipal transit.		✓	Durham	Town of Ajax		-	Link to Official Plan (4.3)
				Region				
Trans	Conduct Truck Route Study to determine best routes	✓		Town of Ajax		Non-direct	\$100,000 -	Link to Official Plan (4.2j)
	for truck traffic and restrictions in certain parts of the						\$200,000	
	Town.							

Goal In 2055 Strategy Strategy Strategy Strategy Strategy	Legend Low = <100 tonne reduction Medium = 100 – 1,000 tonnes High = >1,000 tonnes reduction Non-direct = no direct GHG reductions from action, but supportive of activities that lead to GHG reductions								
Sector	Sector Potential Actions Immediate Longer-term Lead Potential GHG Cost (<5 yrs) (>5 yrs) (>5 yrs) Potential Reductions Estimated								
Waste	Work with producers and retailers to reduce packaging and increase take-back initiatives.	~		Provincial government	Town of Ajax; community groups, institutions, businesses	Non-direct	Nominal		
Waste	Develop incentives for residential waste reduction.		√	Durham Region	Town of Ajax	Low	Nominal		
Waste	Generate greater awareness around littering, illegal dumping, composting and recycling.	√		Durham Region	Town of Ajax	Non-direct	\$5,000/ year		
Waste	Develop an awareness program to promote residential composting.	~		Town of Ajax	Durham Region	Low ¹⁸	\$25,000/ year		
Waste	Develop campaign to encourage the use of reusable mugs, water bottles and reusable lunch containers.	~		Town of Ajax	Durham Region	Low	\$10,000/ year		
Waste	Develop and institute a Waste Management Leadership Program for businesses.		✓	Community groups, institutions, businesses	Town of Ajax; Durham Region	Non-direct	\$5,000/ year		
Waste	Implement programs targeted at the re-use of materials (e.g., Freecycle, swap meets, drop off sites, etc.)	\checkmark		Town of Ajax	Durham Region	Low	\$5,000/ year	Durham Region LAP	

Waste	Continue to divert electronic waste, hazardous waste,	✓		Durham	Town of Ajax	Low	Nominal	Durham Region LAP
	pet waste and other items not captured by regular			Region,				
	collection (e.g., batteries, printer cartridges, light bulbs,			Province of				
	styrofoam, mercury thermostats, etc.).			Ontario				
Waste	Offer residents additional blue bins.	✓		Town of Ajax	Durham Region	Non-direct	Blue bins:	
							\$6/each	
							Green	
							bins:	
							\$15/each	
Waste	Utilize thermal mass burn technology to manage		✓	Durham		Low (~14	~\$280,000,	
	residential waste in a joint York Region and Durham			Region		tonnes/	000 (entire	
	Region Energy From Waste Facility.					year) ¹⁹	project)	
Waste	Create eco-business clusters where there are		✓	Town of Ajax	Community	Non-direct	Unknown	
	efficiencies through shared resources.				groups,			
					institutions,			
					businesses			
Waste	Conduct waste audits of commercial and industrial	✓		Community		Non-direct	Depends	
	facilities.			groups,			on	
				institutions,			application	
				businesses				
Waste	Develop program/policy to encourage responsible	\checkmark		Durham	Community	Low	Nominal	
	disposal of construction waste.			Region	groups,			
					institutions,			
					businesses			

NOTES

An average light-duty gasoline truck (includes SUVs) in Canada has a fuel efficiency of 11.8 L/100 km and travels 15,400 km per year, consuming 1,817.2 L of gasoline and producing 4.2 tonnes of CO₂e per year. In contrast, a 2012 Ford Escape Hybrid has a fuel efficiency of 6.2 L/100 km. Travelling the same 15,400 km per year, the hybrid would consume 955 L of gasoline and produce 2.2 tonnes of CO₂e per year--an annual GHG reduction of approximately 2 tonnes.

Note that GHG reductions will vary depending on annual vehicle kilometres travelled.

² See Endnote 1.

³ The <u>BC Climate Action Toolkit</u> estimates that for the average vehicle with a 3-litre engine (e.g. 2000 Nisan Patrol) every 10 minutes of idling costs more than a quarter of a litre in wasted fuel or approximately 0.6 kg of carbon dioxide. Potential GHG reduction = (number of cars estimated to stop idling)*(the average number of minutes a car idles in a day)*(0.06 Kg/min)*365 days/year

⁴ See Endnote 3.

⁵ The City of Ottawa has purchased over 200 diesel-electric hybrid buses for use in its transit fleet. The City estimates that the hybrid models could improve fuel efficiency by 17-36% when used on low-speed routes with frequent stops and starts. The incremental cost of purchasing the hybrid model, when compared to a conventional diesel model, is estimated at \$165,000. The City of Saskatoon also purchased hybrid diesel-electric buses and found that these hybrid models save 11% in diesel consumption compared to the conventional diesel models.

⁶ A 2006 Ford Crown Victoria with a fuel efficiency of 14.0 L/ 100 km, traveling 100,000 km per year, would consume 14,000 L of gasoline and produce ~33 tonnes of GHG emissions. A 2007 Toyota Camry Hybrid with a fuel efficiency of 7.1 L/100 km, traveling the same distance, would consume ~7,100 L of gasoline and produce ~17 tonnes of GHG emissions--a reduction of 16 tonnes. If 25 taxi cabs were converted to hybrid vehicles, this would result in an annual GHG reduction of 400 tonnes.

⁷ Tree Canada methodology: 1 tree captures ~ 0.734 t GHGs over an 80 year lifecycle.

¹ The average light-duty gasoline vehicle in Canada has a fuel efficiency of 10.7 L/100 km and travels 15,400 km per year, consuming 1,647.8 L of gasoline and producing 3.8 tonnes of CO₂e per year. In contrast, a 2012 Toyota Prius has a fuel efficiency of ~4.0 L/100 km. Travelling the same 15,400 km per year, the Prius would consume 616 L of gasoline and produce 1.4 tonnes of CO₂e--an annual GHG reduction of approximately 2.4 tonnes.

⁸ GHG reduction would depend on type of green building standard/practices adopted and the extent to which these practices are applied throughout the municipality. The table below summarizes typical energy savings for LEED buildings.

	LEED Rating			
	Certified	Silver	Gold	Platinum
Energy Savings	25-30%	30-50%	50-60%	>60%
Annual Utility Savings	\$0.75/ft2	\$1.00/ft2	\$1.25/ft2	\$1.50/ft2
Typical Payback	Under 3 years	3-5 years	5-10 years	10+ years
Incremental Construction Cost				
Small Buildings	3%	7%	10%	15%
Large Buildings	1%	3%	5%	8%

Source: Enermodal Engineering. *LEED™ Green Building Rating System 2009 Explained*. <u>Accessed electronically</u> on November 21, 2012.

Based on a quick review of LEED projects in the National PCP Measures Database, LEED certification for new buildings can result in GHG reductions ranging from 15 tonnes to over 500 tonnes. The potential GHG reduction varies depending on the size of the facility, the energy types that are used in the province, the green building features that are incorporated, etc.

⁹ The Steam Plant primarily uses biomass for fuel (CO2 emissions are therefore considered to be carbon neutral). Assuming the plant is able to produce enough power for 6,000 households, and that the average household consumes approximately 10,000 kWh of electricity per year, the steam plant will provide approximately 60,000,000 kWh of electricity from a renewable source, which would reduce GHG emissions by ~ 7,800 tonnes if assessed against the current grid mix. Further GHG reductions would also be achieved as a result of the district heat/cooling provided by the plant, however, more details are needed to quantify these amounts.

¹⁰ Durham Region. *From Vision to Action – Region of Durham Community Climate Change Local Action Plan 2012.* Ajax provided \$5,000 funding in 2012.

¹¹ Veridian reported a reduction of 107 tonnes of GHGs in 2011 in Ajax through Business and Industrial Conservation Demand Management programs. Program delivery costs were approximately \$500,000 for the entire service area, which is approximately \$100,000 in Ajax. Source: Veridian Connections Inc. Conservation and Demand Management 2011 Annual Report.

¹² See Endnote 11.

¹³ See Endnote 8.

¹⁴ According to the <u>IESO</u>, wind power connected to the IESO-controlled grid had an average yearly capacity factor of 28 per cent in 2009. Using this capacity factor of 28%, we can assume that a 100 MW wind farm would produce 245,280,000 kWh a year (100 MW x 0.28 x 24 hrs/day x 365 days/year x 1000 kW/MW conversion). Since the wind turbines produce this electricity from a renewable source, it would reduce GHG emissions by ~ 31,886 tonnes if assessed against the current grid mix.

¹⁵ Veridian reported a reduction of 177 tonnes of GHGs in 2011 in Ajax through the Residential Conservation Demand Management program. Program delivery costs were approximately \$375,000 for the entire service area, which is approximately \$110,000 in Ajax. Source: Veridian Connections Inc. Conservation and Demand Management 2011 Annual Report.

¹⁶ According to <u>Natural Resources Canada</u>, 154,100,000 GJ of electricity and 329,300,000 GJ of natural gas were consumed by 4,950,700 households in Ontario in 2009, and the share of electricity and natural gas use was 29.2% and 62.4% respectively. The average electricity and natural gas consumed per household is 31 GJ and 67 GJ respectively.

Enbridge's <u>Home Weatherization Retrofit program</u> states that the program can lower energy use up to 30%. Assuming homes only use electricity and natural gas, this would result in an 8.76% and 18.72% reduction in electricity and natural gas use respectively i.e. a 2.7 GJ and 5.8 GJ of electricity and natural respectively. In total, this results in a GHG emissions reduction of 0.97 tonnes of CO2e/household.

Total potential GHG emissions reduction = (number of homes expected to use this program)*(0.97 tonnes of CO2e/household)

¹⁷ Durham Region. From Vision to Action – Region of Durham Community Climate Change Local Action Plan 2012.

¹⁸ A well-used backyard composters can divert between 0.12 and 0.25 tonnes of organic waste per year. 500 units could divert between 60 and 125 tonnes of organic waste from landfill per year. GHG reduction would be ~50-100 tonnes in terms of avoided landfill emissions.

¹⁹ In 2011, Durham Region disposed of 107,670 tonnes of residential garbage, 14,438 tonnes of which were from the Town of Ajax. Since 1 tonne of waste processed by EFW = 1 tonne of GHG avoided, approximately 14 tonnes of GHG can be avoided per year through energy-from-waste processing.