



Appliance Take-Back Program & Seasonal LED Light Exchange

MECO/MissionGreen Partnership with PowerStream

Presentation to General Committee
September 18, 2006



2 New Initiatives

- MECO/MissionGreen partner with PowerStream to launch two new programs for Markham residents:
 1. *Haul Away Your Energy Hog* appliance take-back program
 - Fridges, freezers, window air conditioners
 2. Seasonal LED light exchange program
 - Exchange an old string of incandescents for a new string of LEDs





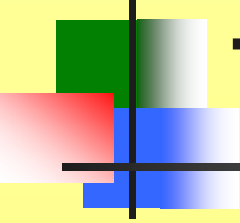
Background

- Ontario Power Authority launched a Refrigerator Retirement Program pilot in Barrie, Mississauga, Kingston, Hamilton/Niagara Region, St. Catharines, Timmins & Windsor
- Purpose - to retire old 'inefficient' fridges
 - Old fridges are the most energy consuming appliances in the house and use 3 to 4 times the amount of electricity as new ones
- Our response? - MECO & MissionGreen partner with PowerStream to offer a bigger, better program in Markham - *Haul Away your Energy Hog*
 - October 1st - February 1st - \$10 pick-up fee will be waived for designated appliances and will offer to remove appliance from home
 - Target -1000 appliances total - 1,000,000 kWh removed from the electricity grid
 - Provide participants with a "Gift bag" - will include information on purchasing Energy Star appliances, and some free energy efficient product give-aways



How will it work?

- Phone in to schedule pick-up - amnesty will be granted on \$10 fee from October 1st to February 1st
- Total estimated cost of running program - <\$15K - shared between MECO, MissionGreen and PowerStream
 - Handling/recycling (MissionGreen's existing operating budget)
 - Extra labour costs to go into home and haul out appliance (PowerStream)
 - Advertising/Promotion costs (MECO)
 - Gift Bag/Energy Efficient product give-away (PowerStream)
- Will document number of appliances collected and potential kWh savings



Targets & Incentives

- 1,000 appliances collected from all 3 categories
- Approximately 1,000,000 to 1,200,000 kWh of electricity consumption removed from the grid per year
 - On average - old fridges consume approximately 1,200 kWh of electricity per year
 - On average - old chest freezers consume approximately 400 kWh of electricity and upright freezers 600 kWh per year
 - Window air conditioners use about 25 kWh of electricity per day (seasonal use varies)



Seasonal LED Light Exchange Program

- PowerStream will provide 1500 strings of seasonal LED lights in exchange for strings of old inefficient incandescent lights - first come, first serve
- Will host exchange program at 3 locations during month of November: Markham, Unionville and Thornhill Recycling Depots
- Benefits of LED strings:
 - Use up to 95% less energy
 - Last at least 10 times longer
 - Are more durable, with no filaments or glass bulbs to break
 - Produce very little heat, reducing the risk of fire