



CO₂ Reduction Summary

	Approximate Annual Tonnes
• Keep Cool	677
• 1.2 million CFL Bulbs	32,500
• Business Incentive program	2,202
• Festive Light Exchange	79
• Summer Challenge for Business	24,758
• Summer Challenge for Residential	16,251
• Beer Fridge	1,605
• TAPS	4,643
• Low Income Housing	2,670
• Deep Lake Cooling	6,500
• Tree Planting	775
• 2008 Mass Market CDM	1,000
• Green Fleet Bio Diesel	72
• Toronto Hydro Solar	38
• THESI/WindShare Wind turbine:	272
• Total	95,032

Major Environmental Activities

- **Mass Market and Commercial Electricity Conservation Programs**
 - More than **357 MW** of electricity demand reduced from Toronto Hydro's grid since 2005
 - **1,200,000** compact fluorescent light bulbs distributed to Torontonians
 - **80,000** strings of LED festive lights distributed by Toronto Hydro with TABIA and City Councillors have reduced holiday season lighting loads by **3 MW** since 2005.
 - Keep Cool program has removed more than **19,000** old, inefficient window air conditioners from the grid, cutting demand by **15 MW**
 - **15,000** "beer fridges" removed from customers' homes, reducing demand by **4 MW**

Major Environmental Activities

- **Peaksaver Air Conditioning Demand Response**
 - More than **50 MW** of residential and small commercial air conditioning load under control by 2009
 - **40,000** Torontonians have voluntarily enrolled to date
 - Peaksaver switch enables Toronto Hydro to cut air conditioning load by 50% instantly, with no inconvenience to customers
 - Directly reduces coal-fired peak demand generation during peak demand periods
 - Award-winning program is most successful of its kind in North America

Major Environmental Activities

- **Summer Challenge “10/10” Programs**
 - Toronto Hydro launched “First in Canada” residential Summer 10/10 program in 2006, adopted province-wide in 2007.
 - **Over 100 Million KWH** saved by residents in two summers by **150,000 customers**.
 - Introduced “First in Canada” Summer Challenge for Business in 2007
 - **More than 12,000 businesses** saved **87.8 Million KWH** during summer peak period

Major Environmental Activities

- **Low Income/Social Housing**
 - Toronto Hydro invested **\$1.6 Million** in Toronto Community Housing conservation initiatives, saving **10 MW for tenants** in 2005-2007
 - Invested **\$400 thousand** in Social Housing Services Corporation conservation programs, saving more than **1 MW for low income tenants**.
 - Invested in **education programs** for building maintenance staff and tenants on conservation and efficiency.
 - Launching **\$1 million conservation initiative** with SHSC in 2008, targeting **3 MW** of conservation savings.

Major Environmental Activities

- **Renewables/Clean and Green Generation**
 - Toronto Hydro/WindShare wind turbine at Ex-Place has produced approximately **4 million KWH of green energy since 2003**
 - Retrofitted **58 community centres** in 2007
 - Launched ALAMP to test more **energy efficient street** lighting technologies
 - **36 KW solar PV system** at Toronto Hydro has produced **1.4 million KWH of green power since 2004**
 - In 2008, develop an **8 MW biogas facility** at Ashbridges Bay Treatment Plant and a **10 MW biogas cogen** development at Green Lane

Other Environmental Activities

Urban Canopy

- Supporter of City's Tree Advocacy Program since its inception: **\$50 thousand/year committed = 1500 new trees planted annually**
- Primary sponsor of LEAF since 1998, planting **1000 backyard trees annually**
- Toronto Hydro "e-Billing" campaign with Ontario Forestry Association will result in **10,000 trees planted in Toronto in 2007-2008.**
- Sponsored "Taylor-Massey Project" at east Don, **planting 2650 trees in 2007**

Other Environmental Activities

Environmental Stewardship

- One of the first major corporations to convert to Forest Stewardship Council (FSC) certified paper for bills and stationary in 2007.
- Toronto Hydro's fleet is one of the first and largest to use bio-diesel fuel in North America
- Recycling of metals and plastics and oil from our distribution system operations resulted in **82 per cent waste diversion in 2007**

Future Environmental Activities

- **Continue to lead provincial utilities in CDM and innovative environmental programs**
 - **Smart Meters/Time of Use Electricity Rates** to shift power consumption “off peak”
 - Pilot **“Electric Gas Stations”** using off peak power to jump start the mass marketing of electric vehicles in Toronto
 - **Develop and implement “Zero Carbon” strategy for Toronto Hydro’s operations**
 - Continue **proactive urban forestry** management on our grid

Future Environmental Activities

- Drive **mass market** CDM programs
- Develop **clean generation** through Toronto Hydro Energy Services: opportunities exist with City of Toronto waste and others
- Develop **solar PV** programs
- **Energy efficiency upgrades** through Toronto Hydro Energy Services: City Hall, community centres, civic centres, TTC, Union Station
- Deliver **Demand Response** services to ABCD's through Toronto Hydro Energy Services to reduce demand and emissions during peak periods and Smog Alerts.