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## 2007 BUDGET BRIEFING NOTE

### Electrical Efficiency and Cogeneration Projects included in the Recommended Toronto Water 2007-2011 Capital Plan

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#### Issue/Background:

- Operation of Toronto Water’s water treatment and wastewater treatment plants requires a significant amount of energy and the 2007 Recommended Operating Budget includes an increase in hydro and natural gas pricing of 12.5% and 5.0%, respectively.
- The Toronto Water 2005 Multi-Year Business Plan, approved by Council, identifies one of Toronto Water’s strategic goals as “Deliver excellence in environmental stewardship” which coincides with a number of issues in the Mayor’s Mandate, including, “Development of a Comprehensive Climate Change Plan” that would cut greenhouse gas emissions.
- Recognizing that power-generating facilities are a key contributor to greenhouse gases, in advance of the development of a formal City-wide Climate Change Plan, Toronto Water has already initiated several projects to reduce its energy demand.

#### Key Points:

The 2007 Toronto Water 5-Year Capital Plan includes a number of projects, detailed in the following table, that are aimed at reducing energy demand to control cost increases, while contributing to the goals of a Climate Change Plan.

PROJECT	2007- 2011 FORECASTED CASHFLOW
Facility Lighting & Electrical Upgrades at Ashbridges Bay WWTP, Humber WWTP, R.C. Harris WTP	\$32 M
Replacement of Pumps & Motors with High Efficiency Units at R.L. Clark WTP, Horgan WTP and Booster Pumping Stations and Humber WWTP	\$13 M
Implementation of Real Time Energy Monitoring at Ashbridges Bay WWTP, Humber WWTP and Highland Creek WWTP	\$9 M
Optimization of Drinking Water Transmission System Pumping	\$5 M
Wastewater Treatment Process Upgrades including completion of co-generation facility at Humber WWTP and Fine Bubble Aeration at Ashbridges Bay WWTP	\$23 M

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Date: January 9, 2007