

Energy and Water Consumption and Greenhouse Gas Report 2012

March 2013

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1. Purpose:

Through the Green Energy Act, 2009 (GEA), the Government of Ontario made commitments to conserve energy and use energy and water efficiently in conducting its affairs. The Government also committed to promote and expand energy conservation by all Ontarians and to encourage Ontarians to use energy efficiently.

Under the GEA, the Government is guided by a number of principles in constructing, acquiring, operating and managing facilities. Ministries responsible for the operation of Government facilities have a responsibility to demonstrate leadership in reducing energy/water consumption and the emission of greenhouse gasses, and to foster an overall culture of conservation. In addition to managing facilities in an environmentally sound manner, Ministries are also required to report annually on energy and water consumption and conservation.

Beginning in 2013, this Energy and Water Consumption and Greenhouse Gas report will be published annually by the Ministry of Children and Youth Services (MCYS) for facilities governed by the GEA (target class facilities).

2. Scope:

This report includes a portfolio overview, energy consumption data, energy conservation plans, and communications and awareness activities for the MCYS target class facilities for the calendar years 2006 to 2010.

3. Portfolio Overview:

On October 23, 2003, the Government announced the creation of a new ministry to deliver real, positive change in the way we support our children, youth and families. A number of children and youth programs previously delivered by the Ministries of Community and Social Services, Health and Long-Term Care, and Community Safety and Correctional Services were integrated under the MCYS.

The MCYS began a transformation of youth justice services which included the disentanglement of youth justice facilities and programming from the Ministry of Community Safety and Correctional Services (MCSCS). Based on an assessment of the legacy facilities, and with the introduction of the federal Youth Criminal Justice Act, the Government committed to achieving a dedicated youth justice system separate and apart from adult corrections by April 1, 2009. To satisfy this commitment, four new purpose built facilities were constructed to enable the transfer-in of all youth from the adult correctional system. Currently, the youth justice services program is supported by twelve government owned secure custody/detention facilities where youth are provided programs and services.

MCYS Youth Justice Services Delivery Model

The Ministry is mandated to provide community and custodial programs for youth in or at risk of conflict with the law. These programs are available through provisions under the Youth Criminal Justice Act. Also, the Child and Family Services Act was amended through Bill 103 to provide the MCYS with the authority to fulfill its obligation under the Youth Criminal Justice Act for youths from twelve to seventeen years of age at the time of the offence.

The Youth Justice Services delivery model is a continuum of evidenced-based supports such as prevention, diversion and rehabilitation that contribute to community safety by addressing the underlying causes of youth crime and successfully transitioning youth out of custody.

Services such as probation and custody are mandatory based on court sentencing. Youth placed in custody/detention take part in structured programming including education (i.e. skills development, life skills programs, anger management) and rehabilitative programs that will help them develop the skills necessary to reintegrate back into the community.

MCYS Youth Justice Services Facilities

The Ministry has twelve target class facilities. Seven of these facilities are operated by the Ministry, and five are operated by Transfer Payment Agencies. One of the Government operated facilities (Bluewater Youth Centre) has ended operations as of 2012 and is in the process of being decommissioned. The following table lists the target class facilities, build year, and the years of energy consumption data from 2006-2010 for each facility included in this report. Note that four of the facilities became operational in 2008 and 2009.

| Youth Facility Name | Location | Year Built | Energy Data |
|---|------------------|--------------------------|--------------------|
| Bluewater Youth Centre (closed in 2012; currently being decommissioned) | Goderich | 1962 | 2006-2010 |
| Brookside Youth Centre | Cobourg | 1870 to 1974 | 2006-2010 |
| Cecil Facer Youth Centre | Sudbury | 1971 & 1972 | 2006-2010 |
| Sprucedale Youth Centre | Simcoe | 1962,1971, 1972 &1992 | 2006-2010 |
| Anago Non- Residential Resources Inc. (Maurice H. Genest Detention Centre for Youth) | London | 1975 | 2006-2010 |
| Banyan Community Services Inc. (Arrell Youth Centre) | Hamilton | 1989 | 2006-2010 |
| Youth Services Bureau of Ottawa (William E. Hay Centre) | Ottawa | 1995 to 2009 | 2006-2010 |
| Kinark Child and Family Services (Syl Apps Youth Centre) | Oakville | 1972 | 2006-2010 |
| Donald Doucet Youth Centre | Sault Ste. Marie | 2008 | 2008-2010 |
| Pwi-Di-Goo-Zing Ne-Yaa-Zhing Advisory Services (Ge-Da-Gi Binez Youth Centre) | Fort Francis | 2008 | 2009-2010 |
| Justice Ronald Lester Youth Centre | Thunder Bay | 2008 | 2009-2010 |
| Roy McMurtry Youth Centre | Brampton | 2008 | 2009-2010 |

4. Energy Consumption Overview:

The Ministry's consumption overview for the period 2006 to 2010 can be found [here](#).

5. Progress:

Given the relatively new status of the portfolio due to the transition of the eight legacy facilities from the MCSCS, and the increasing portfolio size as a result of four new purpose built facilities in recent years, there is not yet an energy conservation baseline established for this portfolio. However, for the years 2006 to 2010 the following trends are observable:

- A decreasing trend in Annual Total Consumption in the period from 2006 to 2008 which illustrates some level of energy management associated with the legacy facilities (facilities from the MCSCS);
- An increase in total consumption starting in 2009 due to the growth of the portfolio as the new purpose built facilities became operational.

6. Energy Conservation Measures:

The Ministry's target class facilities operate continuously (twenty-four hours a day, seven days a week), therefore there is a minimum level of energy that is required to operate our facilities appropriately and safely for the clients we are serving. Due to this nature of the programs, there are limited opportunities to change operational requirements in order to realize significant energy consumption savings.

Given these operational requirements, the primary opportunity for energy savings will be achieved through capital investment upgrades, particularly to the older legacy facilities. Section seven of this report outlines the current capital investment plan.

The Ministry is also acting proactively to contribute to energy consumption savings targets by utilizing recognized energy efficient construction design standards. All four of the Ministry's newly constructed secure youth facilities are designed to meet the Leadership in Energy and Environmental Design (LEED) Silver New Construction Designation, with Silver Certification being received for two of these facilities. LEED is intended to provide building owners and operators a concise framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

7. Conservation Forecasting and Long Term Plan:

The Ministry's long term conservation plan includes continuing to use industry leading design standards to ensure new facilities are incorporating green building design, construction, operations and maintenance. The Ministry will also work closely with our partners at the Ministry of Infrastructure and Infrastructure Ontario to continue to develop a comprehensive plan to improve energy conservation through fundamental capital upgrades to building envelope and operating systems, especially for the older facilities in the portfolio.

The Ministry has worked with Infrastructure Ontario to develop a three-year plan that will begin to address needed upgrades to improve energy consumption in the Ministry's target class

facilities. Approximately \$2.4 million in capital improvements are planned over the next three years such as HVAC upgrades, window renewal, exterior door renewal, roof upgrades, and assessments of electrical service and brick structures to identify opportunities to improve energy efficiency. The Ministry will continue to work closely with Infrastructure Ontario to refine these capital plans. The Ministry will also recommend that Infrastructure Ontario conduct energy audits to determine facility energy efficiency and identify further energy conservation opportunities.

Other Ministry Measures

As part of the transformation of the Youth Justice System, the Ministry has taken the strategic direction to close one of its target class facilities (Bluewater Youth Centre) which will reduce its overall carbon footprint. The Bluewater Youth Centre was announced for closure in 2012 and decommissioning activities have commenced. The Bluewater facility was one of the ministry's older buildings (51 years old) which would have required significant repairs to be sustained as a core asset as well as numerous upgrades and/or retrofits to achieve energy efficiency savings. The closure of this facility will result in a smaller portfolio footprint and a reduction in overall energy consumption for the Ministry.

In addition, the Ministry complies with the various government greening initiatives such as the Green Print Strategy whereby multifunctional devices (MFDs) are being installed replacing several single function devices such as fax machines, photocopiers and network printers, leading to an overall reduction in energy consumption.

8. Communication and Awareness:

This report will be made available to ministry staff and the public through posting on the Ministry website by March 31, 2013.

In addition, the Ministry raises conservation awareness at forums such as Divisional Management Committee and Youth Centre Administrators meetings. Conservation awareness is also shared through broader communications, such as greening initiatives posters (*Turn off the Light Awareness* campaign), and the MCYS Green Plan, which is posted on the Ministry intranet website

9. Appendix- Energy Consumption by Building