



T O W N S H I P
of
D A W N – E U P H E M I A

**Energy Conservation and
Demand Management (CDM) Plan
2024 – 2028**



Energy Conservation and Demand Management Plan

Dawn-Euphemia Township: 2024 to 2028

Commitment

Declaration of Commitment: The Township of Dawn-Euphemia will allocate the necessary resources to develop and implement a strategic energy management plan that will reduce our energy consumption and its related environmental impact and fulfill our regulatory obligations.

Vision: We will strive to reduce our energy consumption through the wise and efficient use of energy and resources, while still maintaining an efficient and effective level of service for our citizens. This will involve a collaborative effort to increase the awareness and understanding of energy management within the municipality. Total energy consumption includes electricity and fossil fuel use associated with the maintenance and operations of our corporate assets.

Policy: Municipalities face rising costs to maintain and repair aging infrastructure, to deliver services to their community and to obtain the necessary energy to power their facilities. The generation and use of energy also contributes to climate change through greenhouse gas (GHG) emissions. The implementation and renewal of this energy management program will ensure that energy conservation and efficiency is a key consideration in the township's facility maintenance and renewal actions.

Programs, processes, and projects will be revisited yearly to track progress of the CDM plan.

Goals: To maintain our current assets and improve the energy efficiency of our facilities and processes where feasible to reduce energy consumption, greenhouse gas emissions, and maintenance costs while improving the reliability of equipment.

Overall Target: We will strive to reduce our overall municipal energy consumption (from all facilities and streetlights) by 3% between now and 2030 (based on 2023 baseline data).

Objectives: In order to meet the strategic goals of the Energy Conservation and Demand Management Plan, there are a number of goals and objectives that align with its development and implementation:

1. Ensure energy efficiency consistency across municipal facilities.
2. Monitor and report on energy consumption annually. Staff will monitor and verify ROI to enable reinvestment in energy projects and report on energy consumption yearly.
3. Better analyze energy costs and look for savings opportunities. This will include energy procurement options and taking advantage of all available resources and funding for energy projects.
4. Raise staff and Council awareness around energy efficiency. This will include communicating successes to both internal and external stakeholders.

Organizational Understanding

Our Municipal Energy Needs: The Township requires reliable, low-cost, sustainable energy sources delivering energy to the most efficient facilities and energy-consuming technology feasible. It is essential for the Township to do its utmost to reduce energy consumption and consider cleaner sources of generation whenever possible to minimize the economic, environmental, and social outcomes of this energy use.

Stakeholder Needs: Internal stakeholders need to be able to clearly communicate our commitment to energy efficiency, and to develop the skills and knowledge required to implement energy management practices and measures. External stakeholders need the municipality to be accountable for energy performance and to minimize the energy component of the costs of municipal services.

Municipal Energy Situation: Our assessment of capacity for energy management with respect to energy policy; organizational structure; employee awareness, skills and knowledge; energy information management; communications; and investment practices indicates the following issues:

1. Energy costs continue to increase and are forecast to increase further.
2. Energy is not visible to decision makers such as Council, management, and members of the public. This leads to a lack of understanding of the costs of energy and the opportunities for energy efficiency.
3. Occasional efforts are made to raise general awareness about energy.
4. Additional responsibilities and cost of services have had an important impact on existing facilities and they may not be able to operate in a sustainable manner over the longer term.
5. The requirement for this Energy Conservation and Demand Management Plan provides an opportunity to build upon other initiatives such as the Asset Management Plan, Municipal Services Review, Official Plan and Zoning updates.

How We Manage Energy Today: The management of our energy is a combination of energy data management, energy supply management, and energy use management.

Energy Data Management: Our energy data is managed through the Treasurer. The data is received via supplier invoices, tracked using an Energy Planning Tool, consumption is analyzed, and reports are generated.

Energy Supply Management: Our municipal energy is supplied via a number of providers as outlined below: Electricity is supplied by Hydro One and natural gas by Enbridge on an as needed basis and is priced at the standard rates offered by the provider. Staff will investigate hedging strategies for purchasing electricity and natural gas.

Energy Use Management: Day to day management of energy has historically happened in an ad-hoc manner. To aid in our efforts to track and reduce energy use the Township plans to utilize an Energy Planning Tool (EPT) in an ongoing manner and to generate and share reports as required.

Summary of Current Energy Consumption, Cost and GHGs: The current annual energy usage by building is detailed in Appendix A. Our energy usage is updated monthly in an Energy Tracking Tool and reported annually to the Ministry of Energy. 2014 is the base year to determine a ten (10) year operating cycle.

Summary of Current Technical Practices: Our assessment of operations and maintenance practices, facility and equipment condition, and energy performance indicators establishes the following priorities:

1. Development of standard operating procedures incorporating energy efficiency optimization.
2. Enhancement of preventative maintenance procedures.
3. Upgrade and retrofit lighting efficiency, HVAC units and appliances with current technology as funding becomes available and life cycle dictates.

Trends in Energy Consumption: Our energy intensity continues to decline, after allowing for seasonal severities from year to year. Appendix B details our yearly energy use by building. Our hydro consumption has decreased by 25% and our gas consumption has decreased by 10% from 2014 to 2023.

Strategic Planning

Links with other municipal plans: The Township will develop and implement energy policies, organize for energy management, develop the required skills and knowledge, manage energy information, communicate with our stakeholders, and invest in energy management measures. As a component of the management structure, the Energy Conservation and Demand Management Plan is to be coordinated with the municipality's budget planning, strategic plan, purchasing policy, preventative maintenance plans, environmental management plan, asset management plan, and the policy development process.

Structure Planning

Consideration of energy efficiency for all projects: The Township will incorporate life cycle cost analysis into the design procedures for all capital projects as well as procurement decisions for equipment and other municipal assets.

Resources Planning

Energy Leader: The Administrator-Clerk has been designated as our energy leader with overall responsibility for corporate energy management.

Energy Team: We will identify staff members and personnel from our critical service providers who carry significant responsibility for energy performance or who can make essential input to energy management processes.

Internal Resources: We will develop criteria for determining whether internal resources can be utilized for the implementation of energy projects.

External Consultants and Suppliers: We will establish criteria in our Procurement Policy based on our energy goals and objectives for the selection of external consultants and energy suppliers.

Energy Training: The Township will develop and deliver skills training for operators, maintainers and others that have "hands-on" involvement with energy consuming systems and equipment. Training focused on the energy use and conservation opportunities associated with employees' job functions will be utilized whenever possible. All such energy management training opportunities are integrated into ongoing staff training and designed to allow for the internal capacity building necessary to ensure that staff are making informed decision and reducing the need for costly external assistance. The Township will utilize both internal and external resources to provide this training as much as resources allow.

Procurement Planning

Energy Purchasing: The Township will investigate the utilization of purchasing groups and/or cooperatives to procure its energy needs and services. This investigation will include the analysis of cost considerations, available energy services, energy quality, and other performance factors. Our energy procurement goal will continue to be the pursuit of optimal rates while achieving an appropriate level of cost certainty.

Consideration of energy efficiency of acquired equipment: Our purchasing procedures will be modified as required to incorporate energy efficiency into the criteria for selection of materials and equipment.

Implementation Planning

Building Standards: As required, we will develop criteria for the design and/or acquisition of new buildings that include energy performance factors and that use as appropriate the principles embedded in performance standards such as LEED and the Model National Energy Code for Buildings. Our new community centre, that opened in 2010, utilized LEED standards in its design.

Investment Planning

Internal Funding Sources: We will develop and/or clarify as necessary the financial indicators that are applied to investment analysis and prioritization of proposed energy projects, taking due consideration of the priority given to energy efficiency projects versus other investment needs (life cycle versus simple payback). Energy and operating costs savings, physical asset renewal, improved employee comfort and service delivery, and enhanced environmental protection are all quantifiable benefits of energy conservation and demand management and will be factored in accordingly.

Creative Approaches: Township staff will investigate, document, and communicate funding sources for energy projects, including government and utility grants and incentives.

Implementation Planning

Business Procedures: We will carry out a comprehensive review of all business processes, including third party contracts, and modify them as necessary in order to incorporate energy efficiency considerations

Projects Execution

Municipal Level: The administration of this Plan will be the responsibility of the Administrator-Clerk. Since we all use energy in our daily activities, it will also be the responsibility of all municipal staff to be aware of their energy use and work towards a culture of conservation. Through staff training and energy management tools, staff will be able to see the results of their efforts, and benchmark between corporate facilities and with industry standards.

Asset Level: In order to sustain a corporate culture of conservation, staff must be engaged in an effective awareness and education program. Although departmental managers have the lead responsibility in ensuring facilities operate efficiently, all municipal staff should be familiar with and utilize energy efficient measures where possible. In addition, any facilities requiring rehabilitation, renewal and/or replacement will incorporate energy saving strategies where possible. Appendix C details Programs, Processes and Projects that are proposed for implementation during the planning period, as resources permit.

Review

Energy Plan Review: As part of any energy management strategy, continuous monitoring, verification, and reporting is an essential tool to track consumption and dollar savings and/or avoidance as the result of implemented initiatives. Township staff will develop an annual progress report with energy consumption data and initiatives undertaken within the calendar year and will report to Council on progress.

Discussion of Progress: Annual energy performance summary reports will be generated to apprise Council of the progress made towards our corporate energy goals and objectives. The general public will be apprised of energy performance of municipal facilities and the impact of implemented energy management measures where appropriate.

Evaluation Progress

Energy Consumption: We will review and evaluate our energy plan, revising and updating it as necessary, on an annual basis based on the Energy Consumption Reports that are submitted to the Ministry of Energy as required under Regulation 397/11.

Green House Gas Emission: Municipalities can lower emissions by improving energy efficiency of buildings and using more renewable energy. The Township is committed to both objectives through the development and implementation of this Energy Conservation and Demand Management Plan (CDM). We will continue to track and report on GHGs as part of our regular reporting on energy consumption and will evaluate progress in this area. Our GHG emissions declined from 73,887kg CO₂e in 2014 to 62,795kg CO₂e in 2023.



**Energy Conservation and
Demand Management Plan
2024 – 2028**

**Appendix A
Consumption Reports 2014 - 2023**

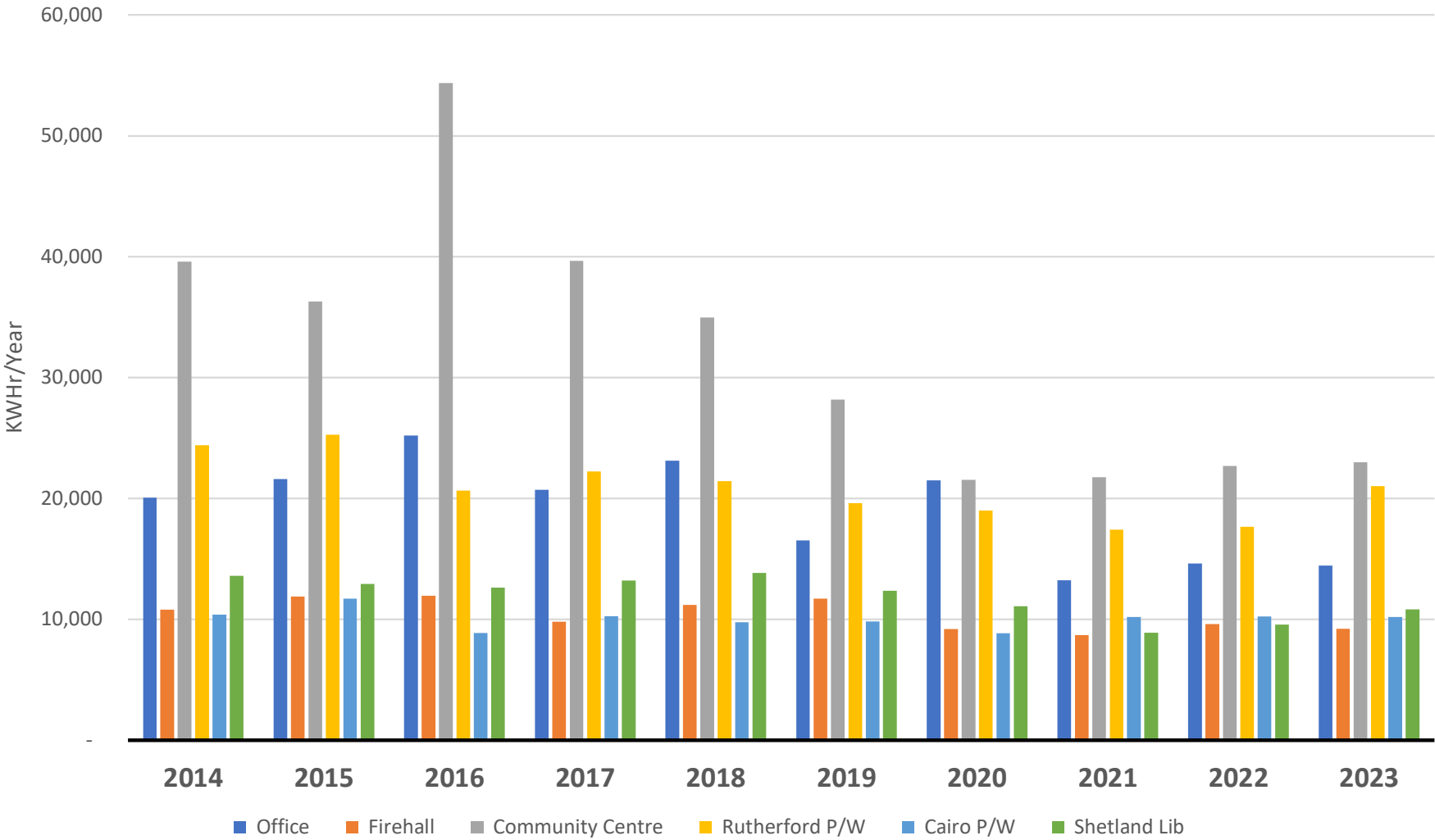
Hydro kWh	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Office	20,060	21,589	25,201	20,708	23,123	16,520	21,488	13,231	14,624	14,437
Firehall	10,806	11,889	11,952	9,802	11,205	11,720	9,202	8,717	9,604	9,226
Community Centre	39,600	36,300	54,360	39,670	34,980	28,199	21,545	21,763	22,696	22,989
Rutherford P/W	24,396	25,293	20,642	22,228	21,431	19,619	19,003	17,412	17,665	21,007
Cairo P/W	10,400	11,720	8,888	10,264	9,760	9,834	8,859	10,202	10,239	10,202
Shetland Lib	13,587	12,931	12,611	13,205	13,831	12,378	11,077	8,899	9,552	10,835
Totals	118,849	119,722	133,654	115,877	114,330	98,270	91,174	80,224	84,380	88,696
		100.73%	111.64%	86.70%	98.66%	85.95%	92.78%	87.99%	105.18%	105.11% year over year change
		100.73%	112.46%	97.50%	96.20%	82.68%	76.71%	67.50%	71.00%	74.63% cumulative change from 2014

Office	\$3,541.87	\$4,146.52	\$5,846.89	\$4,163.23	\$3,996.91	\$2,959.45	\$3,552.36	\$2,556.93	\$3,002.42	\$2,971.86
Firehall	\$1,987.89	\$2,273.85	\$2,593.97	\$2,003.83	\$2,000.67	\$2,105.75	\$1,682.09	\$1,693.51	\$1,981.53	\$1,940.03
Community Centre	\$5,260.98	\$5,500.22	\$8,160.98	\$6,035.15	\$5,817.31	\$4,747.54	\$3,507.73	\$3,706.52	\$4,238.25	\$4,336.94
Rutherford P/W	\$4,155.42	\$4,580.38	\$4,624.08	\$4,434.18	\$3,703.74	\$3,425.47	\$3,207.43	\$3,114.72	\$3,488.01	\$4,133.68
Cairo P/W	\$1,943.84	\$2,312.88	\$2,156.81	\$2,168.10	\$1,852.29	\$1,875.68	\$1,558.34	\$1,957.22	\$2,138.08	\$2,161.53
Shetland Lib	\$2,439.31	\$2,456.90	\$2,907.97	\$2,666.54	\$2,448.93	\$2,369.30	\$1,948.62	\$1,705.87	\$2,024.15	\$2,240.63
Totals	\$19,329.31	\$21,270.75	\$26,290.70	\$21,471.03	\$19,819.85	\$17,483.19	\$15,456.57	\$14,734.77	\$16,872.44	\$17,784.67
		110.04%	123.60%	81.67%	92.31%	88.21%	88.41%	95.33%	114.51%	105.41% year over year change
		110.04%	136.01%	111.08%	102.54%	90.45%	79.96%	76.23%	87.29%	92.01% cumulative change from 2014

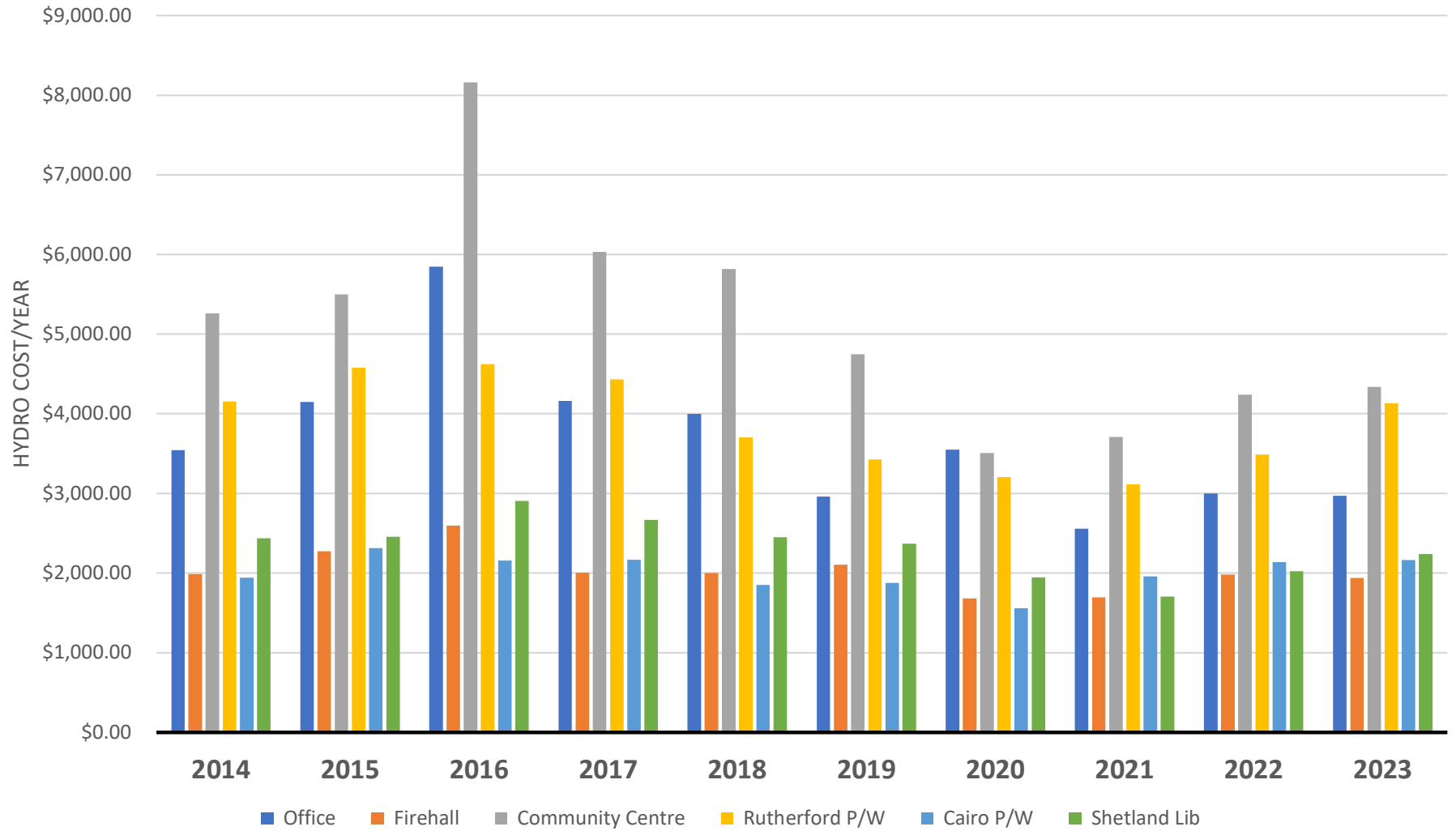
Gas cu m	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Office	3,886	3,557	3,314	3,562	3,297	2,596	2,051	2,297	2,898	2,304
Firehall	6,329	5,131	5,286	5,560	4,902	5,377	3,634	3,129	2,454	7,855
Community Centre	6,685	5,972	7,048	5,515	6,687	6,944	5,865	3,949	2,855	7,320
Rutherford P/W	11,299	8,904	8,791	8,768	8,666	10,206	7,574	7,121	4,685	7,339
Cairo P/W	8,353	6,269	4,936	4,755	7,616	6,605	5,989	4,791	3,852	8,270
Totals	36,552	29,833	29,375	28,160	31,168	31,728	25,113	21,287	16,744	33,088
		81.62%	98.46%	95.86%	110.68%	101.80%	79.15%	84.76%	78.66%	197.61% year over year change
		81.62%	80.36%	77.04%	85.27%	86.80%	68.70%	58.24%	45.81%	90.52% cumulative change from 2014

Office	\$1,190.75	\$1,136.01	\$891.17	\$1,186.00	\$1,039.56	\$885.32	\$789.97	\$965.33	\$1,412.86	\$1,382.46
Firehall	\$1,753.92	\$1,544.26	\$1,254.52	\$1,598.10	\$1,417.96	\$1,537.59	\$1,164.56	\$1,584.91	\$2,138.58	\$3,831.64
Community Centre	\$1,836.56	\$1,746.09	\$1,626.65	\$1,665.60	\$1,829.40	\$1,911.27	\$1,712.49	\$1,949.79	\$2,586.61	\$3,697.62
Rutherford P/W	\$2,777.93	\$2,569.42	\$1,898.72	\$2,398.97	\$2,299.73	\$2,669.09	\$2,131.17	\$3,342.89	\$3,451.61	\$3,761.76
Cairo P/W	\$2,139.99	\$1,905.62	\$1,178.65	\$1,485.62	\$2,073.57	\$1,797.50	\$1,751.13	\$1,923.18	\$3,273.24	\$4,409.38
Totals	\$9,699.15	\$8,901.40	\$6,849.71	\$8,334.29	\$8,660.22	\$8,800.77	\$7,549.32	\$9,766.10	\$12,862.90	\$17,082.86
		91.78%	76.95%	121.67%	103.91%	101.62%	85.78%	129.36%	131.71%	132.81% year over year change
		91.78%	70.62%	85.93%	89.29%	90.74%	77.83%	100.69%	132.62%	176.13% cumulative change from 2014

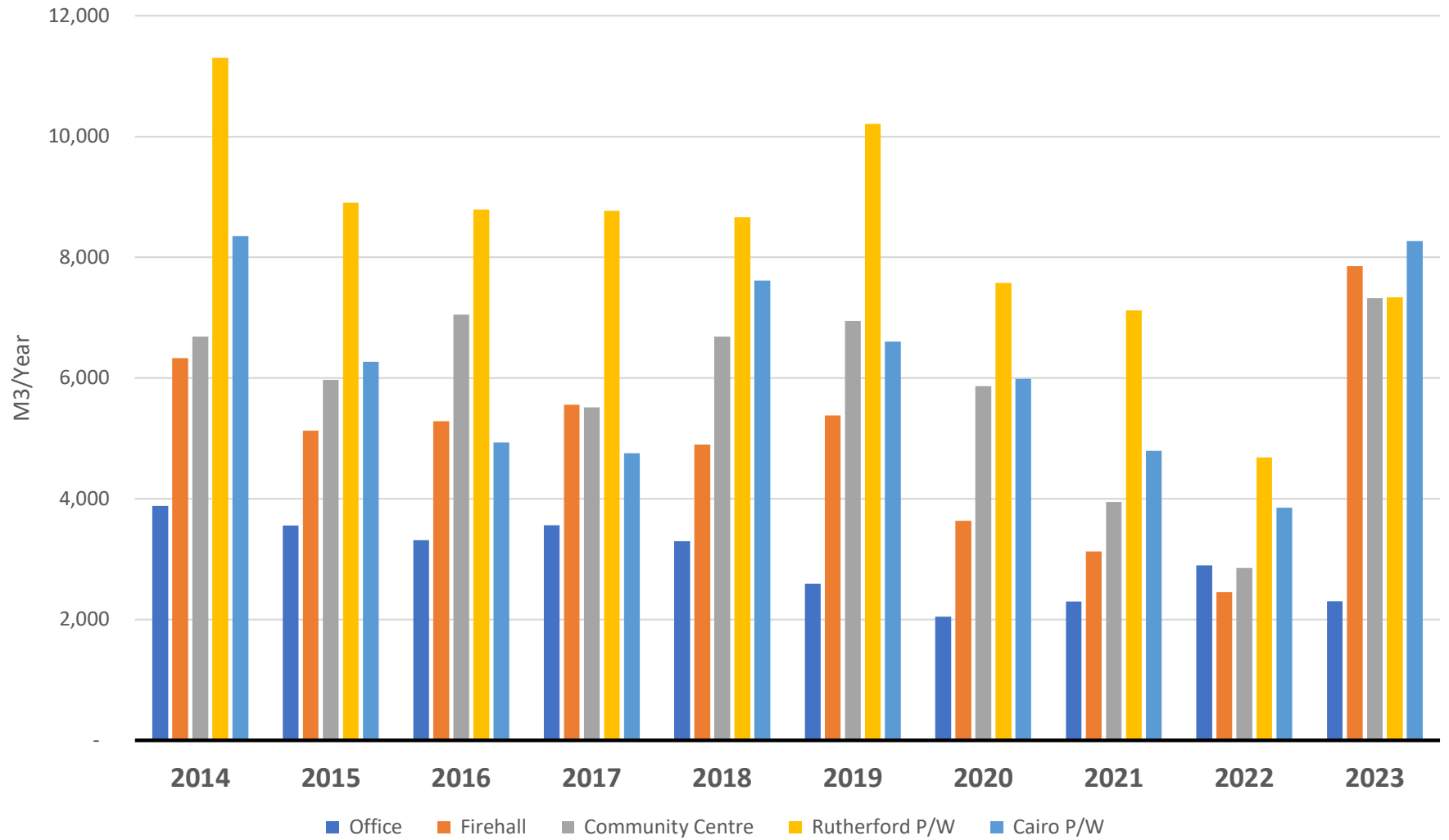
HYDRO USAGE COMPARISON 2014-2023



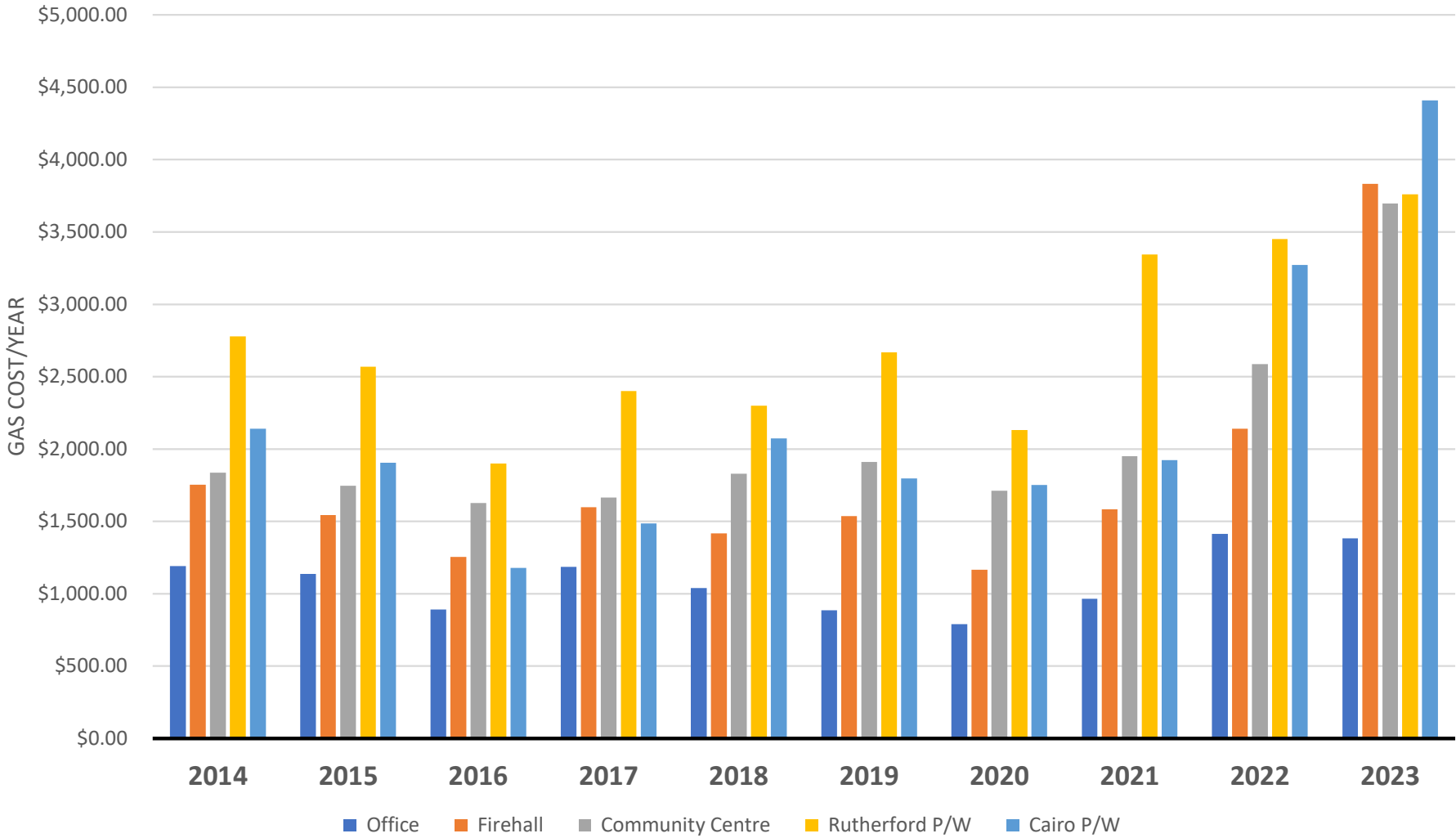
HYDRO COST COMPARISON 2014-2023



GAS USAGE COMPARISON 2014-2023



GAS COST COMPARISON 2014-2023





**Energy Conservation and
Demand Management Plan
2024 – 2028**

**Appendix B
Consumption Trends 2014 - 2023**

Dawn-Euphemia Township

Energy Consumption and GHG Emissions

Appendix 'A' to CDM Plan

From: 2013-01-01 to: 2013-12-31

Facility Name	Address	Total Area (ft ²)	Hours / Wk	Fuel Type	Energy Usage	Energy Cost	Energy (ekWh / yr)	Energy Intensity (ekWh / ft ²)	GHG Emissions (kg CO2e / yr)	GHG Intensity (kgCO2e / ft ²)	ekWh / HDD / ft ² (Note 1)	Public Sector Rank
Facility Type: Office												
Municipal Office	4591 Lambton Line	3048	35	Hydro	22,552 kWh	\$3,543.30	22,552	7.40	1,714	0.56		
				NatGas	3,561 cu m	\$955.75	37,857.595	12.42	6,734	2.21		
Facility Type Total						\$4,499.05	60,410	19.82	8,449	2.77	4.91	n/a
Facility Type: Fire												
Rutherford Firehall	4596 Lambton Line	4500	35	Hydro	13,079 kWh	\$2,120.77	13,079	2.91	994	0.22		
				NatGas	5,577 cu m	\$1,345.71	59,291	13.18	10,547	2.34		
Facility Type Total						\$3,466.48	72,370	16.08	11,541	2.56	3.99	n/a
Facility Type: Community Centre												
Community Ctr	6215 Mill St, Florence	8500	35	Hydro	42,361 kWh	\$5,167.39	42,361	4.98	3,220	0.38		
				NatGas	6,177 cu m	\$1,459.17	65,671	7.73	11,682	1.37		
Facility Type Total						\$6,626.56	108,032	12.71	14,902	1.75	3.15	n/a
Facility Type: Libraries												
Shetland Library	1279 Shetland Road	810	12	Hydro	14,600 kWh	\$2,433.58	14,600	18.02	1,110	1.37	4.47	n/a
Facility Type: Public Works Garage												
Rutherford Garage	4590 Lambton Line	4760	40	Hydro	27,048 kWh	\$4,029.12	27,048	5.68	2,056	0.43		
				NatGas	7,944 cu m	\$1,801.24	84,449	17.74	15,022	3.16	5.80	n/a
Cairo Garage	1345 Cairo Road	4423	40	Hydro	10,101 kWh	\$1,864.51	10,101	2.28	768	0.17		
				NatGas	4,702 cu m	\$1,172.25	49,985	11.30	8,892	2.01	3.37	n/a
Facility Type Total						\$8,867.12	171,583	37.01	26,738	5.77		
Facility Type: Streetlights												
Florence Stlts				Hydro	39,833 kWh	\$6,533.33	39,833					
Oakdale Stlts				Hydro	6,295 kWh	\$976.80	6,295					
Facility Type Total						\$7,510.13	46,128		0			
Grand Total:						\$33,402.92	473,122	103.64	62,739	21.32		

GHG - greenhouse gas; kWh - kilowatt hour; ekWh - equivalent kWh; CO2e - equivalent carbon dioxide; ekWh / HDD - ekWh use per Heating Degree Day

Note 1 - calculation & rank provided by the Ontario Ministry of Energy; rank indicates the % of reporting facilities that scored better; n/a - not yet available

Dawn-Euphemia Township

Energy Consumption and GHG Emissions

Appendix 'A' to CDM Plan

From: 2014-01-01 to: 2014-12-31

Facility Name	Address	Total Area (ft ²)	Hours / Wk	Fuel Type	Energy Usage	Energy Cost	Energy (ekWh / yr)	Energy Intensity (ekWh / ft ²)	GHG Emissions (kg CO ₂ e / yr)	GHG Intensity (kgCO ₂ e / ft ²)	ekWh / HDD / ft ² (Note 1)	Public Sector Rank
Facility Type: Office												
Municipal Office	4591 Lambton Line	3048	35	Hydro	20,060 kWh	\$3,541.87	20,060	6.58	804	0.26		
				Gas	3,886 cu m	\$1,190.75	41,310	13.55	7,349	2.41		
Facility Type Total						\$4,732.62	61,370	20.13	8,153	2.67	n/a	n/a
Facility Type: Fire												
Rutherford Firehall	4596 Lambton Line	4500	35	Hydro	10,806 kWh	\$1,987.89	10,806	2.40	433	0.10		
				Gas	6,329 cu m	\$1,753.92	67,277	14.95	11,968	2.66		
Facility Type Total						\$3,741.81	78,082	17.35	12,401	2.76	n/a	n/a
Facility Type: Community Centre												
Community Ctr	6215 Mill St, Florence	8500	35	Hydro	39,600 kWh	\$5,260.98	39,600	4.66	1,588	0.19		
				Gas	6,685 cu m	\$1,836.56	71,063	8.36	12,641	1.49		
Facility Type Total						\$7,097.54	110,663	13.02	14,229	1.67	n/a	n/a
Facility Type: Libraries												
Shetland Library	1279 Shetland Road	810	12	Hydro	13,587 kWh	\$2,439.31	13,587	16.77	545	0.67	n/a	n/a
Facility Type: Public Works Garage												
Rutherford Garage	4590 Lambton Line	4760	40	Hydro	24,396 kWh	\$4,155.42	24,396	5.13	978	0.21		
				Gas	11,299 cu m	\$2,777.93	120,114	25.23	21,367	4.49	n/a	n/a
Cairo Garage	1345 Cairo Road	4423	40	Hydro	10,400 kWh	\$1,943.84	10,400	2.35	417	0.09		
				Gas	8,353 cu m	\$2,139.99	88,802	20.08	15,797	3.57	n/a	n/a
Facility Type Total						\$11,017.18	243,712	52.79	38,559	8.36		
Facility Type: Streetlights												
Florence Stlts				Hydro	38,184 kWh	\$7,051.60	38,184					
Oakdale Stlts				Hydro	6,036 kWh	\$1,062.46	6,036					
Facility Type Total						\$8,114.06	44,220		0			
Grand Total:						\$37,142.52	551,634	120.07	73,887	23.24		

GHG - greenhouse gas; kWh - kilowatt hour; ekWh - equivalent kWh; CO₂e - equivalent carbon dioxide; ekWh / HDD - ekWh use per Heating Degree Day

Note 1 - calculation & rank provided by the Ontario Ministry of Energy; rank indicates the % of reporting facilities that scored better; n/a - not yet available

Dawn-Euphemia Township

Energy Consumption and GHG Emissions

Appendix 'A' to CDM Plan

From: 2015-01-01 to: 2015-12-31

Facility Name	Address	Total Area (ft ²)	Hours / Wk	Fuel Type	Energy Usage	Energy Cost	Energy (ekWh / yr)	Energy Intensity (ekWh / ft ²)	GHG Emissions (kg CO2e / yr)	GHG Intensity (kgCO2e / ft ²)	ekWh / HDD / ft ² (Note 1)	Public Sector Rank
Facility Type: Office												
Municipal Office	4591 Lambton Line	3048	35	Hydro	21,589 kWh	\$4,146.52	21,589	7.08	866	0.28		
				Gas	3,557 cu m	\$1,136.01	37,805	12.40	6,728	2.21		
Facility Type Total						\$5,282.53	59,393	19.49	7,594	2.49	n/a	n/a
Facility Type: Fire												
Rutherford Firehall	4596 Lambton Line	4500	35	Hydro	11,889 kWh	\$2,273.85	11,889	2.64	477	0.11		
				Gas	5,131 cu m	\$1,544.26	54,533	12.12	9,705	2.16		
Facility Type Total						\$3,818.11	66,422	14.76	10,182	2.26	n/a	n/a
Facility Type: Community Centre												
Community Ctr	6215 Mill St, Florence	8500	35	Hydro	36,300 kWh	\$5,500.22	36,300	4.27	1,456	0.17		
				Gas	5,972 cu m	\$1,746.09	63,472	7.47	11,296	1.33		
Facility Type Total						\$7,246.31	99,772	11.74	12,752	1.50	n/a	n/a
Facility Type: Libraries												
Shetland Library	1279 Shetland Road	810	12	Hydro	12,931 kWh	\$2,456.90	12,931	15.96	519	0.64	n/a	n/a
Facility Type: Public Works Garage												
Rutherford Garage	4590 Lambton Line	4760	40	Hydro	25,293 kWh	\$4,580.38	25,293	5.31	1,014	0.21	n/a	n/a
				Gas	8,904 cu m	\$2,569.42	94,630	19.88	16,842	3.54		
Cairo Garage	1345 Cairo Road	4423	40	Hydro	11,720 kWh	\$2,312.88	11,720	2.65	470	0.11	n/a	n/a
				Gas	6,269 cu m	\$1,905.62	66,628	15.06	11,858	2.68		
Facility Type Total						\$11,368.30	198,271	42.91	30,184	6.54		
Facility Type: Streetlights												
Florence Stilts				Hydro	38,184 kWh	\$7,611.65	38,184					
Oakdale Stilts				Hydro	6,036 kWh	\$1,174.83	6,036					
Facility Type Total						\$8,786.48	44,220		0			
Grand Total:						\$38,958.63	481,009	104.86	61,230	19.69		

GHG - greenhouse gas; kWh - kilowatt hour; ekWh - equivalent kWh; CO2e - equivalent carbon dioxide; ekWh / HDD - ekWh use per Heating Degree Day

Note 1 - calculation & rank provided by the Ontario Ministry of Energy; rank indicates the % of reporting facilities that scored better; n/a - not yet available

Dawn-Euphemia Township

Energy Consumption and GHG Emissions

Appendix 'A' to CDM Plan

From: 2016-01-01 to: 2016-12-31

Facility Name	Address	Total Area (ft ²)	Hours / Wk	Fuel Type	Energy Usage	Energy Cost	Energy (ekWh / yr)	Energy Intensity (ekWh / ft ²)	GHG Emissions (kg CO2e / yr)	GHG Intensity (kgCO2e / ft ²)	ekWh / HDD / ft ² (Note 1)	Public Sector Rank
Facility Type: Office												
Municipal Office	4591 Lambton Line	3048	35	Hydro	25,201 kWh	\$5,846.89	25,201	8.27	2,420	0.79		
				Gas	3,314 cu m	\$891.17	35,224	11.56	6,269	2.06		
Facility Type Total						\$6,738.06	60,425	19.82	8,689	2.85	n/a	n/a
Facility Type: Fire												
Rutherford Firehall	4596 Lambton Line	4500	35	Hydro	11,952 kWh	\$2,593.97	11,952	2.66	1,148	0.26		
				Gas	5,286 cu m	\$1,254.52	56,184	12.49	9,999	2.22		
Facility Type Total						\$3,848.49	68,136	15.14	11,147	2.48	n/a	n/a
Facility Type: Community Centre												
Community Ctr	6215 Mill St, Florence	8500	35	Hydro	54,360 kWh	\$8,160.98	54,360	6.40	5,221	0.61		
				Gas	7,049 cu m	\$1,626.65	74,914	8.81	5,538	0.65		
Facility Type Total						\$9,787.63	129,274	15.21	10,759	1.27	n/a	n/a
Facility Type: Libraries												
Shetland Library	1279 Shetland Road	810	12	Hydro	12,611 kWh	\$2,907.97	12,611	15.57	1,211	1.50	n/a	n/a
Facility Type: Public Works Garage												
Rutherford Garage	4590 Lambton Line	4760	40	Hydro	20,642 kWh	\$4,624.08	20,642	4.34	1,982	0.42	n/a	n/a
				Gas	8,791 cu m	\$1,898.72	93,429	19.63	16,628	3.49		
Cairo Garage	1345 Cairo Road	4423	40	Hydro	8,888 kWh	\$2,156.81	8,888	2.01	854	0.19	n/a	n/a
				Gas	4,936 cu m	\$1,178.65	52,462	11.86	9,337	2.11		
Facility Type Total						\$9,858.26	175,420	37.84	28,801	6.21		
Facility Type: Streetlights												
Florence Stilts				Hydro	38,184 kWh	\$9,416.20	38,184					
Oakdale Stilts				Hydro	6,036 kWh	\$1,460.03	6,036					
Facility Type Total						\$10,876.23	44,220		0			
Grand Total:						\$44,016.64	490,086	103.58	60,607	20.90		

GHG - greenhouse gas; kWh - kilowatt hour; ekWh - equivalent kWh; CO2e - equivalent carbon dioxide; ekWh / HDD - ekWh use per Heating Degree Day

Note 1 - calculation & rank provided by the Ontario Ministry of Energy; rank indicates the % of reporting facilities that scored better; n/a - not yet available

Dawn-Euphemia Township

Energy Consumption and GHG Emissions

Appendix 'A' to CDM Plan

From: 2017-01-01 to: 2017-12-31

Facility Name	Address	Total Area (ft ²)	Hours / Wk	Fuel Type	Energy Usage	Energy Cost	Energy (ekWh / yr)	Energy Intensity (ekWh / ft ²)	GHG Emissions (kg CO2e / yr)	GHG Intensity (kgCO2e / ft ²)	ekWh / HDD / ft ² (Note 1)	Public Sector Rank
Facility Type: Office												
Municipal Office	4591 Lambton Line	3048	35	Hydro	20,708 kWh	\$4,163.23	20,708	6.79	1,989	0.65		
				Gas	3,562 cu m	\$1,186.00	37,858	12.42	6,738	2.21		
Facility Type Total						\$5,349.23	58,566	19.21	8,726	2.86	n/a	n/a
Facility Type: Fire												
Rutherford Firehall	4596 Lambton Line	4500	35	Hydro	9,802 kWh	\$2,003.83	9,802	2.18	941	0.21		
				Gas	5,560 cu m	\$1,598.10	59,095	13.13	10,517	2.34		
Facility Type Total						\$3,601.93	68,897	15.31	11,459	2.55	n/a	n/a
Facility Type: Community Centre												
Community Ctr	6215 Mill St, Florence	8500	35	Hydro	39,670 kWh	\$6,035.15	39,670	4.67	3,810	0.45		
				Gas	5,415 cu m	\$1,665.60	57,548	6.77	5,538	0.65		
Facility Type Total						\$7,700.75	97,218	11.44	9,348	1.10	n/a	n/a
Facility Type: Libraries												
Shetland Library	1279 Shetland Road	810	12	Hydro	13,205 kWh	\$2,666.54	13,205	16.30	1,268	1.57	n/a	n/a
Facility Type: Public Works Garage												
Rutherford Garage	4590 Lambton Line	4760	40	Hydro	22,228 kWh	\$4,434.18	22,228	4.67	2,135	0.45	n/a	n/a
				Gas	8,768 cu m	\$2,398.97	93,189	19.58	16,585	3.48		
Cairo Garage	1345 Cairo Road	4423	40	Hydro	10,264 kWh	\$2,168.10	10,264	2.32	986	0.22	n/a	n/a
				Gas	4,755 cu m	\$1,485.62	50,539	11.43	8,995	2.03		
Facility Type Total						\$10,486.87	176,220	37.99	28,700	6.19		
Facility Type: Streetlights												
Florence Stilts				Hydro	24,508 kWh	\$5,430.79	24,508					
Oakdale Stilts				Hydro	3,774 kWh	\$840.73	3,774					
Facility Type Total						\$6,271.52	28,282		0			
Grand Total:						\$36,076.84	442,388	100.26	59,501	20.77		

GHG - greenhouse gas; kWh - kilowatt hour; ekWh - equivalent kWh; CO2e - equivalent carbon dioxide; ekWh / HDD - ekWh use per Heating Degree Day

Note 1 - calculation & rank provided by the Ontario Ministry of Energy; rank indicates the % of reporting facilities that scored better; n/a - not yet available

Dawn-Euphemia Township

Energy Consumption and GHG Emissions

Appendix 'A' to CDM Plan

From: 2018-01-01 to: 2018-12-31

Facility Name	Address	Total Area (ft ²)	Hours / Wk	Fuel Type	Energy Usage	Energy Cost	Energy (ekWh / yr)	Energy Intensity (ekWh / ft ²)	GHG Emissions (kg CO2e / yr)	GHG Intensity (kgCO2e / ft ²)	ekWh / HDD / ft ² (Note 1)	Public Sector Rank
Facility Type: Office												
Municipal Office	4591 Lambton Line	3048	35	Hydro	23,123 kWh	\$3,996.91	23,123	7.59	2,221	0.73		
				Gas	3,297 cu m	\$1,039.56	35,044	11.50	6,237	2.05		
Facility Type Total						\$5,036.47	58,166	19.08	8,458	2.77	n/a	n/a
Facility Type: Fire												
Rutherford Firehall	4596 Lambton Line	4500	35	Hydro	11,205 kWh	\$2,000.67	11,205	2.49	1,076	0.24		
				Gas	4,902 cu m	\$1,417.96	52,102	11.58	9,273	2.06		
Facility Type Total						\$3,418.63	63,307	14.07	10,349	2.30	n/a	n/a
Facility Type: Community Centre												
Community Ctr	6215 Mill St, Florence	8500	35	Hydro	34,980 kWh	\$5,817.31	34,980	4.12	3,359	0.40		
				Gas	6,688 cu m	\$1,829.40	71,077	8.36	5,538	0.65		
Facility Type Total						\$7,646.71	106,057	12.48	8,897	1.05	n/a	n/a
Facility Type: Libraries												
Shetland Library	1279 Shetland Road	810	12	Hydro	13,831 kWh	\$2,448.93	13,831	17.08	1,328	1.64	n/a	n/a
Facility Type: Public Works Garage												
Rutherford Garage	4590 Lambton Line	4760	40	Hydro	21,431 kWh	\$3,703.74	21,431	4.50	2,058	0.43		
				Gas	8,667 cu m	\$2,299.73	92,109	19.35	16,393	3.44	n/a	n/a
Cairo Garage	1345 Cairo Road	4423	40	Hydro	9,760 kWh	\$1,852.29	9,760	2.21	937	0.21		
				Gas	7,616 cu m	\$2,073.57	80,944	18.30	14,406	3.26	n/a	n/a
Facility Type Total						\$9,929.33	204,245	44.36	33,794	7.35		
Facility Type: Streetlights												
Florence Stlts				Hydro	10,824 kWh	\$2,099.32	10,824					
Oakdale Stlts				Hydro	1,512 kWh	\$335.62	1,512					
Facility Type Total						\$2,434.94	12,336		0			
Grand Total:						\$30,915.01	457,942	107.06	62,827	21.23		

GHG - greenhouse gas; kWh - kilowatt hour; ekWh - equivalent kWh; CO2e - equivalent carbon dioxide; ekWh / HDD - ekWh use per Heating Degree Day

Note 1 - calculation & rank provided by the Ontario Ministry of Energy; rank indicates the % of reporting facilities that scored better; n/a - not yet available

Dawn-Euphemia Township

Energy Consumption and GHG Emissions

Appendix 'A' to CDM Plan

From: 2019-01-01 to: 2019-12-31

Facility Name	Address	Total Area (ft ²)	Hours / Wk	Fuel Type	Energy Usage	Energy Cost	Energy (ekWh / yr)	Energy Intensity (ekWh / ft ²)	GHG Emissions (kg CO2e / yr)	GHG Intensity (kgCO2e / ft ²)	ekWh / HDD / ft ² (Note 1)	Public Sector Rank
Facility Type: Office												
Municipal Office	4591 Lambton Line	3048	35	Hydro	16,520 kWh	\$2,959.45	16,520	5.42	1,587	0.52		
				Gas	2,596 cu m	\$885.32	27,589	9.05	4,910	1.61		
Facility Type Total						\$3,844.77	44,109	14.47	6,497	2.13	n/a	n/a
Facility Type: Fire												
Rutherford Firehall	4596 Lambton Line	4500	35	Hydro	11,720 kWh	\$2,105.75	11,720	2.60	1,126	0.25		
				Gas	5,377 cu m	\$1,537.59	57,144	12.70	10,170	2.26		
Facility Type Total						\$3,643.34	68,864	15.30	11,296	2.51	n/a	n/a
Facility Type: Community Centre												
Community Ctr	6215 Mill St, Florence	8500	35	Hydro	28,199 kWh	\$4,747.54	28,199	3.32	2,708	0.32		
				Gas	6,944 cu m	\$1,911.27	73,803	8.68	5,538	0.65		
Facility Type Total						\$6,658.81	102,003	12.00	8,246	0.97	n/a	n/a
Facility Type: Libraries												
Shetland Library	1279 Shetland Road	810	12	Hydro	12,378 kWh	\$2,369.30	12,378	15.28	1,189	1.47	n/a	n/a
Facility Type: Public Works Garage												
Rutherford Garage	4590 Lambton Line	4760	40	Hydro	19,619 kWh	\$3,425.47	19,619	4.12	1,884	0.40		
				Gas	10,206 cu m	\$2,669.09	108,465	22.79	19,304	4.06	n/a	n/a
Cairo Garage	1345 Cairo Road	4423	40	Hydro	9,834 kWh	\$1,875.68	9,834	2.22	944	0.21		
				Gas	6,605 cu m	\$1,797.50	70,199	15.87	12,494	2.82	n/a	n/a
Facility Type Total						\$9,767.74	208,118	45.00	34,626	7.49		
Facility Type: Streetlights												
Florence Stlts				Hydro	10,824 kWh	\$2,118.29	10,824					
Oakdale Stlts				Hydro	1,512 kWh	\$331.38	1,512					
Facility Type Total						\$2,449.67	12,336		0			
Grand Total:						\$28,733.63	447,807	102.06	61,854	20.18		

GHG - greenhouse gas; kWh - kilowatt hour; ekWh - equivalent kWh; CO2e - equivalent carbon dioxide; ekWh / HDD - ekWh use per Heating Degree Day

Note 1 - calculation & rank provided by the Ontario Ministry of Energy; rank indicates the % of reporting facilities that scored better; n/a - not yet available

Dawn-Euphemia Township

Energy Consumption and GHG Emissions

Appendix 'A' to CDM Plan

From: 2020-01-01 to: 2020-12-31

Facility Name	Address	Total Area (ft ²)	Hours / Wk	Fuel Type	Energy Usage	Energy Cost	Energy (ekWh / yr)	Energy Intensity (ekWh / ft ²)	GHG Emissions (kg CO2e / yr)	GHG Intensity (kgCO2e / ft ²)	ekWh / HDD / ft ² (Note 1)	Public Sector Rank
Facility Type: Office												
Municipal Office	4591 Lambton Line	3048	35	Hydro	21,488 kWh	\$3,552.36	21,488	7.05	2,064	0.68		
				Gas	2,051 cu m	\$789.97	21,801	7.15	3,880	1.27		
Facility Type Total						\$4,342.33	43,290	14.20	5,944	1.95	n/a	n/a
Facility Type: Fire												
Rutherford Firehall	4596 Lambton Line	4500	35	Hydro	9,202 kWh	\$1,682.09	9,202	2.04	884	0.20		
				Gas	3,634 cu m	\$1,164.56	38,626	8.58	6,874	1.53		
Facility Type Total						\$2,846.65	47,828	10.63	7,758	1.72	n/a	n/a
Facility Type: Community Centre												
Community Ctr	6215 Mill St, Florence	8500	35	Hydro	21,545 kWh	\$3,507.73	21,545	2.53	2,069	0.24		
				Gas	5,865 cu m	\$1,712.49	62,327	7.33	5,538	0.65		
Facility Type Total						\$5,220.22	83,873	9.87	7,607	0.89	n/a	n/a
Facility Type: Libraries												
Shetland Library	1279 Shetland Road	810	12	Hydro	11,077 kWh	\$1,948.62	11,077	13.68	1,064	1.31	n/a	n/a
Facility Type: Public Works Garage												
Rutherford Garage	4590 Lambton Line	4760	40	Hydro	19,003 kWh	\$3,207.43	19,003	3.99	1,825	0.38	n/a	n/a
				Gas	7,574 cu m	\$2,131.17	80,494	16.91	14,326	3.01		
Cairo Garage	1345 Cairo Road	4423	40	Hydro	8,859 kWh	\$1,558.34	8,859	2.00	851	0.19	n/a	n/a
				Gas	5,990 cu m	\$1,751.13	63,657	14.39	11,329	2.56		
Facility Type Total						\$8,648.07	172,012	37.30	28,331	6.15		
Facility Type: Streetlights												
Florence Stlts				Hydro	10,824 kWh	\$2,054.32	10,824					
Oakdale Stlts				Hydro	1,512 kWh	\$305.95	1,512					
Facility Type Total						\$2,360.27	12,336		0			
Grand Total:						\$25,366.16	370,416	85.67	50,704	16.60		

GHG - greenhouse gas; kWh - kilowatt hour; ekWh - equivalent kWh; CO2e - equivalent carbon dioxide; ekWh / HDD - ekWh use per Heating Degree Day

Note 1 - calculation & rank provided by the Ontario Ministry of Energy; rank indicates the % of reporting facilities that scored better; n/a - not yet available

Dawn-Euphemia Township

Energy Consumption and GHG Emissions

Appendix 'A' to CDM Plan

From: 2021-01-01 to: 2021-12-31

Facility Name	Address	Total Area (ft ²)	Hours / Wk	Fuel Type	Energy Usage	Energy Cost	Energy (ekWh / yr)	Energy Intensity (ekWh / ft ²)	GHG Emissions (kg CO2e / yr)	GHG Intensity (kgCO2e / ft ²)	ekWh / HDD / ft ² (Note 1)	Public Sector Rank
Facility Type: Office												
Municipal Office	4591 Lambton Line	3048	35	Hydro	13,231 kWh	\$2,556.93	13,231	4.34	1,271	0.42		
				Gas	2,297 cu m	\$965.33	24,412	8.01	4,345	1.43		
Facility Type Total						\$3,522.26	37,643	12.35	5,615	1.84	n/a	n/a
Facility Type: Fire												
Rutherford Firehall	4596 Lambton Line	4500	35	Hydro	8,717 kWh	\$1,693.51	8,717	1.94	837	0.19		
				Gas	3,129 cu m	\$1,584.91	33,256	7.39	5,919	1.32		
Facility Type Total						\$3,278.42	41,973	9.33	6,756	1.50	n/a	n/a
Facility Type: Community Centre												
Community Ctr	6215 Mill St, Florence	8500	35	Hydro	21,763 kWh	\$3,706.52	21,763	2.56	2,090	0.25		
				Gas	3,949 cu m	\$1,949.79	41,965	4.94	5,538	0.65		
Facility Type Total						\$5,656.31	63,728	7.50	7,628	0.90	n/a	n/a
Facility Type: Libraries												
Shetland Library	1279 Shetland Road	810	12	Hydro	8,899 kWh	\$1,705.87	8,899	10.99	855	1.06	n/a	n/a
Facility Type: Public Works Garage												
Rutherford Garage	4590 Lambton Line	4760	40	Hydro	17,412 kWh	\$3,114.72	17,412	3.66	1,672	0.35	n/a	n/a
				Gas	7,121 cu m	\$3,342.89	75,679	15.90	13,469	2.83		
Cairo Garage	1345 Cairo Road	4423	40	Hydro	10,202 kWh	\$1,957.22	10,202	2.31	980	0.22	n/a	n/a
				Gas	4,791 cu m	\$1,923.18	50,921	11.51	9,063	2.05		
Facility Type Total						\$10,338.01	154,214	33.38	25,184	5.45		
Facility Type: Streetlights												
Florence Stlts				Hydro	10,824 kWh	\$2,168.34	10,824					
Oakdale Stlts				Hydro	1,512 kWh	\$333.39	1,512					
Facility Type Total						\$2,501.73	12,336		0			
Grand Total:						\$27,002.60	318,793	73.54	46,038	14.99		

GHG - greenhouse gas; kWh - kilowatt hour; ekWh - equivalent kWh; CO2e - equivalent carbon dioxide; ekWh / HDD - ekWh use per Heating Degree Day

Note 1 - calculation & rank provided by the Ontario Ministry of Energy; rank indicates the % of reporting facilities that scored better; n/a - not yet available

Dawn-Euphemia Township

Energy Consumption and GHG Emissions

Appendix 'A' to CDM Plan

From: 2022-01-01 to: 2022-12-31

Facility Name	Address	Total Area (ft ²)	Hours / Wk	Fuel Type	Energy Usage	Energy Cost	Energy (ekWh / yr)	Energy Intensity (ekWh / ft ²)	GHG Emissions (kg CO2e / yr)	GHG Intensity (kgCO2e / ft ²)	ekWh / HDD / ft ² (Note 1)	Public Sector Rank
Facility Type: Office												
Municipal Office	4591 Lambton Line	3048	35	Hydro	14,624 kWh	\$3,002.42	14,624	4.80	1,405	0.46		
				Gas	2,898 cu m	\$1,412.86	30,799	10.10	5,481	1.80		
Facility Type Total						\$4,415.28	45,424	14.90	6,886	2.26	n/a	n/a
Facility Type: Fire												
Rutherford Firehall	4596 Lambton Line	4500	35	Hydro	9,604 kWh	\$1,981.53	9,604	2.13	922	0.20		
				Gas	2,454 cu m	\$2,138.58	26,081	5.80	4,642	1.03		
Facility Type Total						\$4,120.11	35,685	7.93	5,564	1.24	n/a	n/a
Facility Type: Community Centre												
Community Ctr	6215 Mill St, Florence	8500	35	Hydro	22,696 kWh	\$4,238.25	22,696	2.67	2,180	0.26		
				Gas	2,855 cu m	\$2,586.61	30,342	3.57	5,538	0.65		
Facility Type Total						\$6,824.86	53,038	6.24	7,718	0.91	n/a	n/a
Facility Type: Libraries												
Shetland Library	1279 Shetland Road	810	12	Hydro	9,552 kWh	\$2,024.15	9,552	11.79	917	1.13	n/a	n/a
Facility Type: Public Works Garage												
Rutherford Garage	4590 Lambton Line	4760	40	Hydro	17,665 kWh	\$3,488.01	17,665	3.71	1,697	0.36	n/a	n/a
				Gas	4,685 cu m	\$3,451.61	49,791	10.46	8,861	1.86		
Cairo Garage	1345 Cairo Road	4423	40	Hydro	10,239 kWh	\$2,138.08	10,239	2.31	983	0.22	n/a	n/a
				Gas	3,852 cu m	\$3,273.24	40,938	9.26	7,286	1.65		
Facility Type Total						\$12,350.94	118,633	25.74	18,827	4.09		
Facility Type: Streetlights												
Florence Stlts				Hydro	10,824 kWh	\$2,350.03	10,824					
Oakdale Stlts				Hydro	1,512 kWh	\$361.79	1,512					
Facility Type Total						\$2,711.82	12,336		0			
Grand Total:						\$32,447.16	274,668	66.61	39,912	14.03		

GHG - greenhouse gas; kWh - kilowatt hour; ekWh - equivalent kWh; CO2e - equivalent carbon dioxide; ekWh / HDD - ekWh use per Heating Degree Day

Note 1 - calculation & rank provided by the Ontario Ministry of Energy; rank indicates the % of reporting facilities that scored better; n/a - not yet available

Dawn-Euphemia Township

Energy Consumption and GHG Emissions

Appendix 'A' to CDM Plan

From: 2023-01-01 to: 2023-12-31

Facility Name	Address	Total Area (ft ²)	Hours / Wk	Fuel Type	Energy Usage	Energy Cost	Energy (ekWh / yr)	Energy Intensity (ekWh / ft ²)	GHG Emissions (kg CO2e / yr)	GHG Intensity (kgCO2e / ft ²)	ekWh / HDD / ft ² (Note 1)	Public Sector Rank
Facility Type: Office												
Municipal Office	4591 Lambton Line	3048	35	Hydro	14,437 kWh	\$2,971.86	14,437	4.74	1,387	0.45		
				Gas	2,304 cu m	\$1,382.46	24,486	8.03	4,358	1.43		
Facility Type Total						\$4,354.32	38,923	12.77	5,744	1.88	n/a	n/a
Facility Type: Fire												
Rutherford Firehall	4596 Lambton Line	4500	35	Hydro	9,226 kWh	\$1,940.03	9,226	2.05	886	0.20		
				Gas	7,855 cu m	\$3,831.64	83,481	18.55	14,857	3.30		
Facility Type Total						\$5,771.67	92,707	20.60	15,743	3.50	n/a	n/a
Facility Type: Community Centre												
Community Ctr	6215 Mill St, Florence	8500	35	Hydro	22,989 kWh	\$4,336.94	22,989	2.70	2,208	0.26		
				Gas	7,320 cu m	\$3,697.62	77,795	9.15	5,538	0.65		
Facility Type Total						\$8,034.56	100,784	11.86	7,746	0.91	n/a	n/a
Facility Type: Libraries												
Shetland Library	1279 Shetland Road	810	12	Hydro	10,835 kWh	\$2,240.63	10,835	13.38	1,041	1.28	n/a	n/a
Facility Type: Public Works Garage												
Rutherford Garage	4590 Lambton Line	4760	40	Hydro	21,007 kWh	\$4,133.68	21,007	4.41	2,018	0.42		
				Gas	7,339 cu m	\$3,761.76	77,997	16.39	13,881	2.92	n/a	n/a
Cairo Garage	1345 Cairo Road	4423	40	Hydro	10,202 kWh	\$2,161.53	10,202	2.31	980	0.22		
				Gas	8,270 cu m	\$4,409.38	87,892	19.87	15,642	3.54	n/a	n/a
Facility Type Total						\$14,466.35	197,098	42.98	32,521	7.10		
Facility Type: Streetlights												
Florence Stlts				Hydro	10,757 kWh	\$2,354.37	10,757					
Oakdale Stlts				Hydro	1,503 kWh	\$358.04	1,503					
Facility Type Total						\$2,712.41	12,260		0			
Grand Total:						\$37,579.94	452,608	101.58	62,795	20.97		

GHG - greenhouse gas; kWh - kilowatt hour; ekWh - equivalent kWh; CO2e - equivalent carbon dioxide; ekWh / HDD - ekWh use per Heating Degree Day

Note 1 - calculation & rank provided by the Ontario Ministry of Energy; rank indicates the % of reporting facilities that scored better; n/a - not yet available



**Energy Conservation and
Demand Management Plan
2024 – 2028**

**Appendix C
Programs, Processes and Projects**

Programs, Processes and Projects

All work completed on the plan to date and the ongoing implementation of the plan will culminate in the development of actions for execution. Generally, the action can be classified as a program, process, or project. All actions are linked to particular objectives developed in the plan.

Programs

Energy Awareness - Add energy awareness to management meetings. This will provide a platform to discuss topics like the current costs of energy consumption, future implications of current usage, areas for improvements and ways to reduce energy use.

Employee Participation - Invite employees from all departments of the Municipality to recommend ideas to reduce energy use in their departments.

Energy Accounting - Monthly utility usage and costs should be monitored to identify trends and emphasize anomalies to better predict future usage requirements.

Efficiency Standards - Standards of performance will be developed to identify and implement temperature regulations for each building for the following:

- Indoor temperature for occupied space
- Indoor temperature for unoccupied space
- Desirable hot water tank temperature

Energy Efficiency Purchasing - All potential asset purchases will be subject to energy use evaluations to determine the energy consumption of the potential purchase. In the decision-making process, preference will be given to assets that use less kWh or are Energy Star rated.

After Hours - Adopt a strategy to ensure that lighting is turned off during periods where facilities are not in use after hours. Staff who use the facilities after hours will be advised to minimize illumination to occupied areas.

Processes

Enhance Building Envelopes – For those Municipal buildings that have been identified as critical in terms of heating and cooling energy consumption will be re caulked, weather stripped, and insulated to reduce air leakage.

Annual Energy Reports – Energy reports will be produced annually for management review and reduction analysis.

Energy Planning – Energy planning will be added to discussions at Manager Meetings to reduce consumption and increase cost savings.

Energy Commodity – Investigate the feasibility of joining a purchasing program such as that offered by A.M.O. through their LAS division for both electricity and natural gas.

Energy Procurement Policies – Choosing products with minimal life-cycle impacts can save energy, reduce operating costs and reduce emissions. Procurement policies and practices will be updated to include life-cycle cost analysis that takes into account the energy use and cost.

Energy Conservation – Encourage staff and facility users to consciously incorporate conservation in daily routines through the use of signage, checklists, user manuals, etc. Items such as the use of power bars, turning off devices at night / on exit, lights out, etc.

Projects – recent past

Municipal Office – installed new energy efficient furnace, air conditioner and water heater

Dawn Euphemia Community Centre – installed new energy efficient stove

Projects – under consideration

All facilities – update lighting as required to meet energy efficiency standards