

North Algona Wilberforce Township

Conservation & Demand Management Plan 2014 - 2019

Our Goals and Commitments

Living in the 21st Century, there have come to be some great advancements in science and technology, especially where conserving energy and doing our best for the environment by eliminating greenhouse gas emissions is concerned. North Algona Wilberforce has our mind set on helping in these causes by taking strict measures for helping aide in the well being of the environment and helping conserve energy where we can.

Using low efficiency light bulbs, window coverings that block out the strong sun rays, conserving gas and diesel by the public works workers driving together to job sites and keeping the thermostat registered at tolerable level in the hot days in the summer and the cold days in the winter.

Some of our objectives for our 5-Year Plan are:

- Educating employees and having staff awareness
- Efficient maintenance practices and thorough operating
- Consistently checking for new and emerging technology upgrades through investigation and research as well as leadership demonstrations within the municipality
- Set realistic measures for long term energy conservation and follow through on our demand management plan
- Sustain reliable, low cost and sustainable energy sources

Section #1 Township Profile

Basic Information

The Township of North Algona Wilberforce is 35,922 hectares and has an approximate population of 2,483.

Our contact information is: 1091 Shaw Woods Road Eganville, ON KOJ 1TO

Telephone: (613) 628.2080

Fax: (613) 628.3341 Roads: (613) 628.2618

Email: naw@nalgonawil.com
Website: www.nalgonawil.com

Our Members of Council and Key Personnel are:

Mayor – Harold Weckworth Councillor – Kevin Clarke Councillor – Lorenz Kelo

Councillor - John Keuhl

Councillor – Ruth Schoenfeldt

Senior Management:

Clerk Treasurer – Marilyn Casselman Public Works Superintendent – Scott Clark

Commitment to Apply

On December 17th, 2012 the Township of North Algona Wilberforce passed Resolution #10 as follows:

THAT: North Algona Wilberforce Township does an Energy Audit and apply to Hydro One for a save on energy Audit Funding.

This Resolution was Moved by Councillor Lorenz Kelo Seconded by Councillor Ruth Schoenfeldt

The motion was carried.

Ontario Regulation 397/11

This plan has 2 Stages:

Phase 1: Report Energy Consumption and Greenhouse Gas Emissions

Phase 2: Submit a 5-year Conservation and Demand Management Plan

Summary of Facilities

NAME	FACILITY TYPE	ADDRESS	SIZE (F ₂)
Township Office/Roads	Admin Office/Roads Garage	1091 Shaw Woods Road	7500
Township Cottage	Indoor Recreation Facility	28 C Township Park Road	2350
Golden Lake Fire Hall/Roads	Storage Facility	3312 Lake Dore Road	1600
Rankin Fire Hall	Fire Station	37 Marsh Road	2400
Deacon Fire Hall	Fire Station	92 Old Bridge Road	1600
Golden Lake Community Centre	Community Centre	3310 Lake Dore Road	2700
Berndt Road Waste Site	Waste Site/Office	219 Berndt Road	100

Administrative Offices, Fire Halls and related facilities; including Municipal and Council Chambers

Township of North Algona Wilberforce Municipal Office and Roads Garage/Yard

1091 Shaw Woods Road Eganville, ON KOJ 1TO TOTAL SQUARE FOOTAGE: 7,500

This facility not only houses our Administration Office but also the Public Works Office, Garage and Works Yard.

The original portion of the building was constructed in the 1980's and then had renovations in 1999 when North Algona and Wilberforce Townships were amalgamated.

The building consists of a few sections, including:

- A Front office space for 3 administrative workers
- A office for the Public Works Director
- A kitchen
- The council chambers
- 2 storage rooms
- A garage

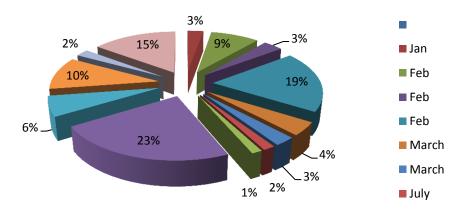
This building uses Hydro as well as Propane for heat.

The Administrative office operates on the hours of 8:30AM – 5:00PM Monday to Friday and the Public Works Department runs on the hours of 7:30AM – 3:30PM

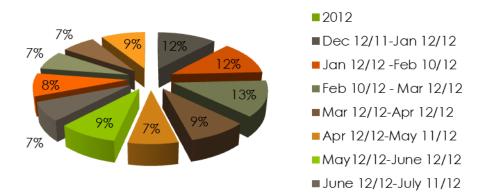
In addition to the office hours, the Council Chambers are used twice a month for regular meetings through the year, with the exception of July and August only being once per month. It is also used on a "as needed" basis for committee meetings, training and other Council related activities.

(Administration Building & Public Works Garage/Yard)

Admin/Roads Shaw Woods Propane Energy Used - 2012



Admin/Roads Shaw Woods Hydro Energy Used - 2012



(continued)

Township of North Algona Wilberforce Park/Cottage/Ball Field

28 C Township Park Road
Eganville, ON KOJ 1TO
TOTAL SQUARE FOOTAGE: 2,350

An enjoyable part of our township if the Township Cottage and Ball Field facility that gets rented out over the course of the summer months to cottagers and community members.

The Lake Dore Cottage was built in the 1900's and the Township took ownership in 1973. It consists of kitchen:

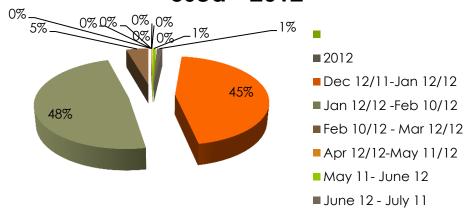
- 2 bathrooms (upstairs and main level)
- One summer kitchen
- 2 bedrooms up stairs
- One living room (main level)

This building is used for rental during the summer months for family reunions, recreation events, church groups and community gatherings.

Since this particular building has not heat, its only energy consumption comes from hydro.

(Park Cottage/Ball Field)

Township Cottage Hydro Energy Used - 2012



(continued)

Golden Lake Fire Hall/Roads Yard and Garage

3312 Lake Dore Road Golden Lake, ON KOJ 1X0 TOTAL SQUARE FOOTAGE: 1,600

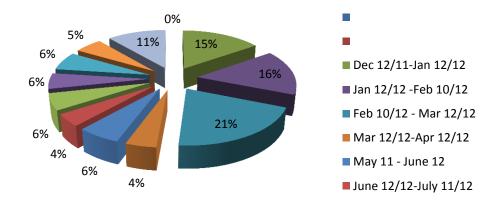
Consisting of not only a Roads Department, this facility also consists of the Golden Lake Station Fire Hall. Built in 1974 and houses

- Bays for fire trucks
- Equipment for roads department
- One bathroom

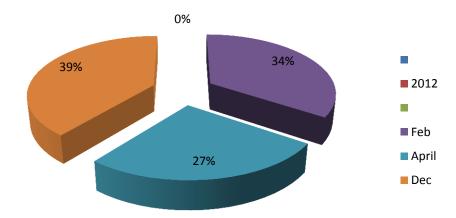
The heat source for this building is Propane and uses Hydro for its power source.

(Golden Lake Fire Hall/Public Works Yard & Garage/Fire Hall)

Hwy 60 - Fire Hall & Roads Hydro Energy Used - 2012



Propane Energy Used – 2012



(continued)

Rankin Fire Hall

37 Marsh Road
Pembroke, ON K8A 6W4
TOTAL SQUARE FOOTAGE: 2,400

The Rankin Fire Hall is the newest facility in our township, being built in 2003. It has the following layout:

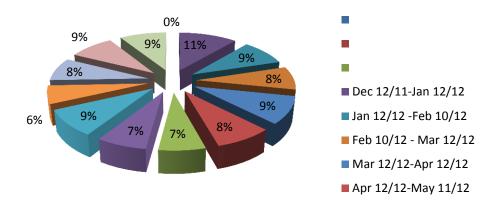
- Bays for fire trucks
- A conference room upstairs
- Two bathrooms
- A utility room
- One office

The heat source for this building is Furnace Oil and uses Hydro for its power source.

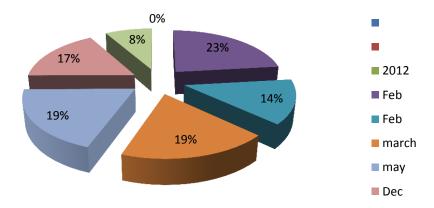
This facility is used bi/weekly for Fire Practice, truck and equipment inspections as well as for some fire department events and community events. Training takes place here as well every so often when needed.

(Rankin Fire Hall)

Rankin Fire Hall Hydro Energy Used



Rankin Fire Hall Furnace Oil - Type Energy Used



(continued)

Deacon Fire Hall

92 Old Bridge Road Golden Lake, ON KOJ 1X0 TOTAL SQUARE FOOTAGE: 1,600

The Deacon Fire Hall is used as a storage facility in our township, being built in 1992.

It has the following layout:

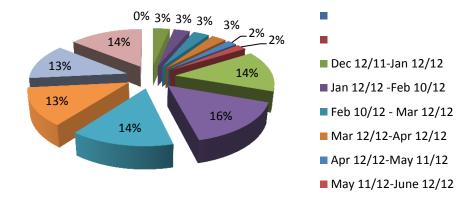
- A single bay for a fire truck
- One bathroom

The heat source for this building is Propane and uses Hydro for its power source.

This building does not house meetings and such and is just designed as a storage facility.

(Deacon Fire Hall)

Deacon Fire Hall Hydro Energy Used 2012



(continued)

Golden Lake Community Centre

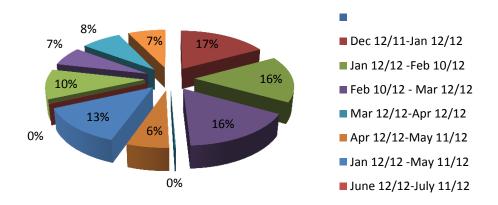
3310 Lake Dore Road Golden Lake, ON KOJ 1X0 TOTAL SQUARE FOOTAGE: 2,700

The Golden Lake Community Centre is a facility used for rental for community and recreation events as well as an office space. It uses Hydro and Furnace Fuel for heating.

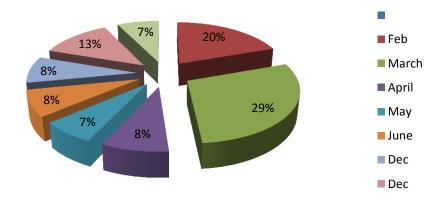
There is an office space and a community centre area with a kitchen as well as 2 bathrooms.

(Golden Lake Community Centre)

Community Centre Hydro Energy Used - 2012



Community Centre Furnace Fuel Energy Used



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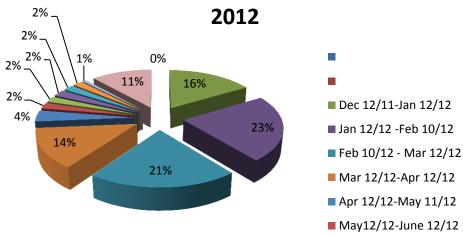
Berndt Road Transfer Site

219 Berndt Road Golden Lake, ON KOJ 1X0 TOTAL SQUARE FOOTAGE: 100

The Berndt Road Waste Site is an drop off area for waste, recyclables and landfill for the ratepayers in the Township. There is not actual building, but there is a shelter (lean-to) for the workers that uses Hydro.

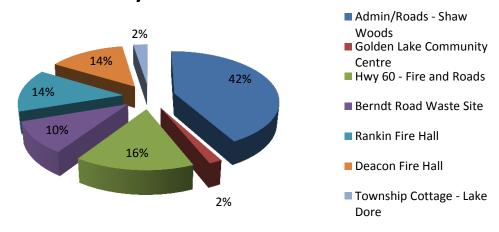
(Berndt Road Waste SIte)

Berndt Waste Hydro Energy Used

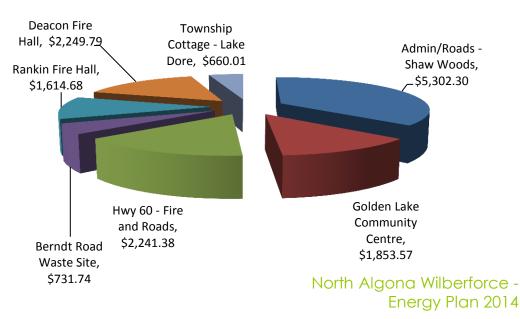


Energy Consumption - HYRDO TOTALS for **2012**

Total Hydro Use - 2012 HYDRO kWh

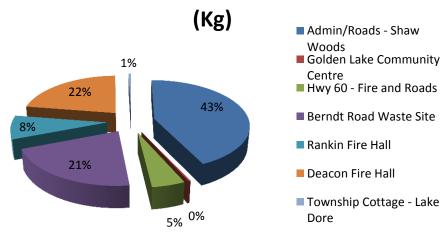


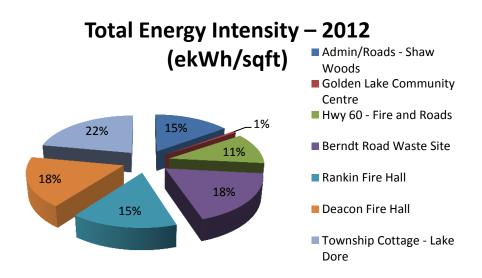
Total Electricity Use – 2012 (\$)



Energy Consumption TOTALS for **2012**







Energy Consumption and GHG Emissions for 2012

	Energy Consumption and Greenhouse Gas Emissions Reporting for 2012	-						
Confirm consecutive 12-mth period (mth ynto mth-yr)	January 1st, 2012 - December 31st, 2012							
Sector								
Age noy Sub-sector	To wre hip							
Organization Name	Township of North Algors Wilberforce	Please fill in the mandatory fields indicated in red, in addition to submitting date						
					Total			
				Postel	Floor			
Operation Name	Operation Type	Address	City	Code	Area	Unit		
Admin/Roads - Shaw Woods	Administrative offices and related facilities, including municipal council chambers	1091 Shaw Woods Road	Eganville	KOL1TO	7500	Square feet		
Township Cottage	Indoor recreational facilities	28 C Township Park Road	Eganville	KOL 1TO	2350	Square feet		
Golden take Fire Hall/Roads	Storage facilities where equipment or vehicles are maintained, repaired or stored	3312 lake Dore Road	Golden take	KOL 1XO	1600	Square feet		
Rankin Fire Hall	Fire stations and associated offices and facilities	37 Marsh Road	Pem broke	K % A 6 W 4	2400	Square feet		
Deacon Fire Hall	Fire stations and associated offices and facilities	920 ld Bridge Road	Golden lake	KOL1XO	1600	Square feet		
Golden la ke Community Centre	Community centres	3310 lake Dore Road	Golden lake	KOL1XO	2700	Square feet		
Berndt Road Waste Site	Ad ministrative offices and related facilities, including municipal council chambers	219 Berndt Road	Golden take	KOL1XO	100	Square feet		

on your er	iergy usage.	Energy Type and Amount Purchased and Consumed in Natural Units									Total (calculated in webform)			
Aug	Annual Flow (Mega	Electricity		Natural Gas		FuelOil18:2		FuelOil4&6		Propane		GHG	Energy	Energy
hrs/wk	Litres)	Quantity	Unit	Quantity	Unit	Quantity	Unit	Quantity	Unit	Quantity	Unit	Emission	Intensity	Intensity
40	0	33801	kWh	0	Cubic Meter	0	Litre	0	Litre	995 6.8	Litre	18589.52	1384038	0
10	0	1402.4	kwh	0	Cubic Meter	0	Litre	0	Litre	0	Litre	134.6865	0596766	0
40	0	12540	kWh	0	Cubic Meter	0	Litre	0	Litre	574.4	Litre	2089.483	10.36147	0
20	0	8328	kWh	0	Cubic Meter	3025.4	Litre	0	Litre	0	Litre	9074.762	17.05629	0
10	0	11177	kWh	0	Cubic Meter	0	Litre	0	Litre	1651.7	Litre	3618.682	14.24335	0
40	0	11084.03	kwh	0	Cubic Meter	3094.3	Litre	0	Litre	0	Litre	95 27 .903	16,45693	0
20	0	205 2	kwh	0	Cubic Meter	0	Litre	0	Litre	0	Litre	197.0741	20.52	0

Conclusion

Conserving energy and being energy efficient in the Township of North Algona Wilberforce is of the upmost importance in our beautiful Municipality. As the environment is in need of our help more and more every year, it will be this municipalities duties to encourage electricity conservation to help reduce harmful Greenhouse Gas Emissions; through tactful methods of conservation.

Powering down electronics overnight, holidays and weekends in the office, as well as scheduling public works projects around less travelling of equipment at different times.

Encouraging staff members, council member and committee members to help in aiding this great cause as well, through educational training sessions and the monitoring of facilities energy consumptions.

If everyone works together, we can help lower GHG Emissions and help this planet stay fresh and clean.