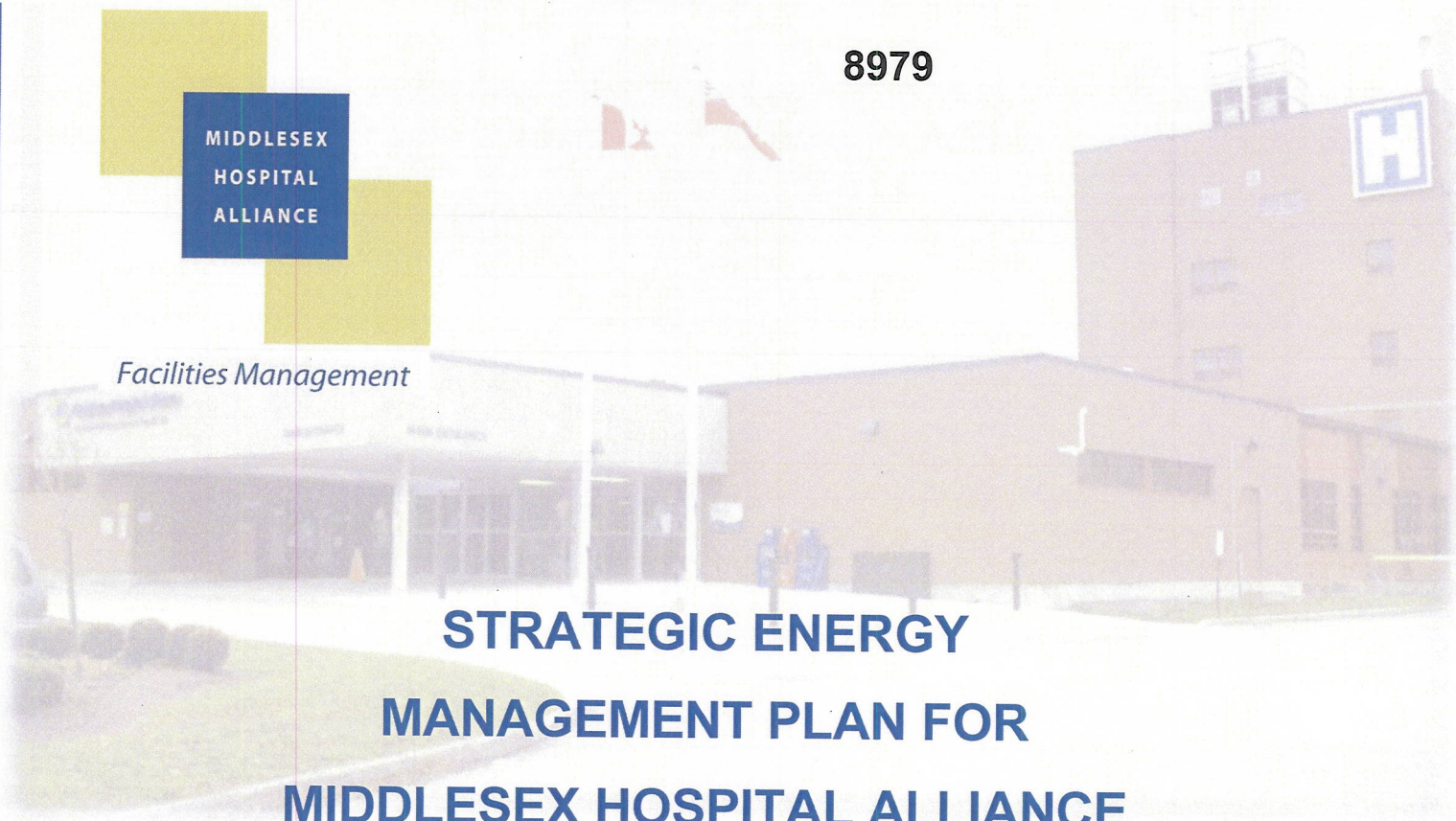


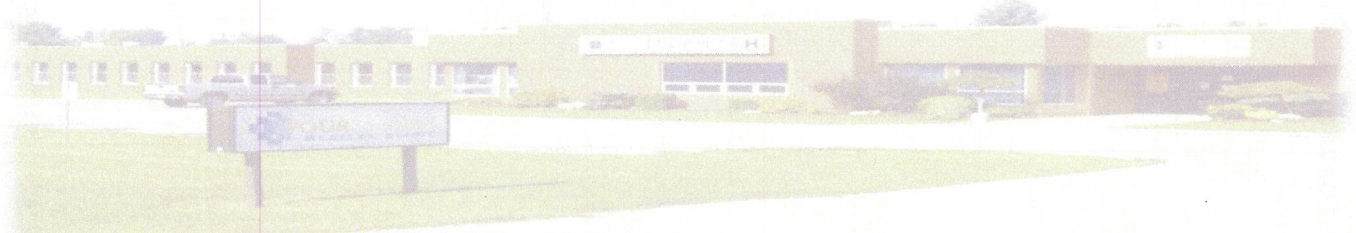
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MIDDLESEX  
HOSPITAL  
ALLIANCE

*Facilities Management*

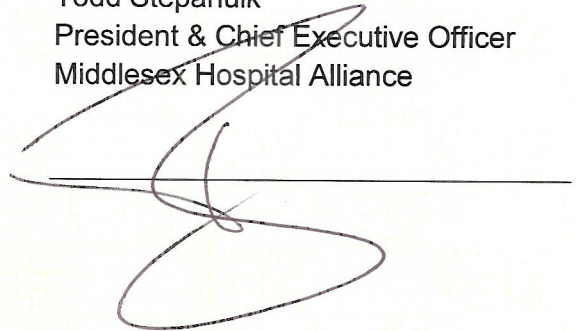


**STRATEGIC ENERGY  
MANAGEMENT PLAN FOR  
MIDDLESEX HOSPITAL ALLIANCE  
2017 UPDATE**



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Todd Stepanuik  
President & Chief Executive Officer  
Middlesex Hospital Alliance



## **Introduction**

The purpose of Middlesex Hospital Alliance's energy management plan and policies is to promote good stewardship of our environment and community resources. In keeping with our core values of Efficiency and Financial Responsibility, Middlesex Hospital Alliance's energy management program will reduce operating costs and enable us to provide the healthcare we would expect for our own families to a greater number of persons in the community.

The following data is an update for 2017 of the Energy Data for 2015 submitted as part of our requirements under the Green Energy Act. We have also included updates to our 2014 Strategic Energy Management Plan Timeline where applicable.

## **Projects that have impacted Energy**

- 1) Replacement of AHU#4 at FCHS -- A new energy efficient Air Handler was installed in 2015-16 with improved controls
- 2) FCHS Controls -- The old control system was updated in 2016 with new Direct Digital Control allowing better control of HVAC systems.
- 3) SMGH Controls -- The old control system was updated in 2016 with new Direct Digital Control allowing better control of HVAC systems.
- 4) DCW/DHW Piping -- A renewal of the Hot and Cold water piping system at SMGH was completed in 2015 resulting in 26130 cubic meter saving in water use (\$57,930).
- 5) SMGH Cladding -- New exterior Cladding was completed in 2015 improving the insulation value of the facility.
- 6) SMGH Boilers -- New Heating boilers were installed in 2016 with a 20% improvement in efficiency
- 7) SMGH/FCHS Medical Air & Vacuum Pump -- The pumps were replaced with new efficient units resulting in water and hydro savings.

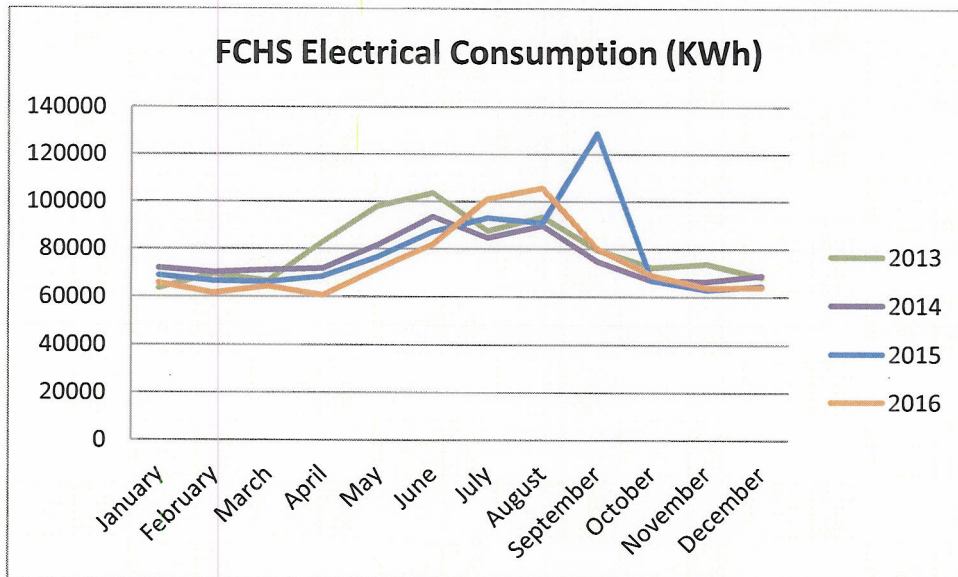
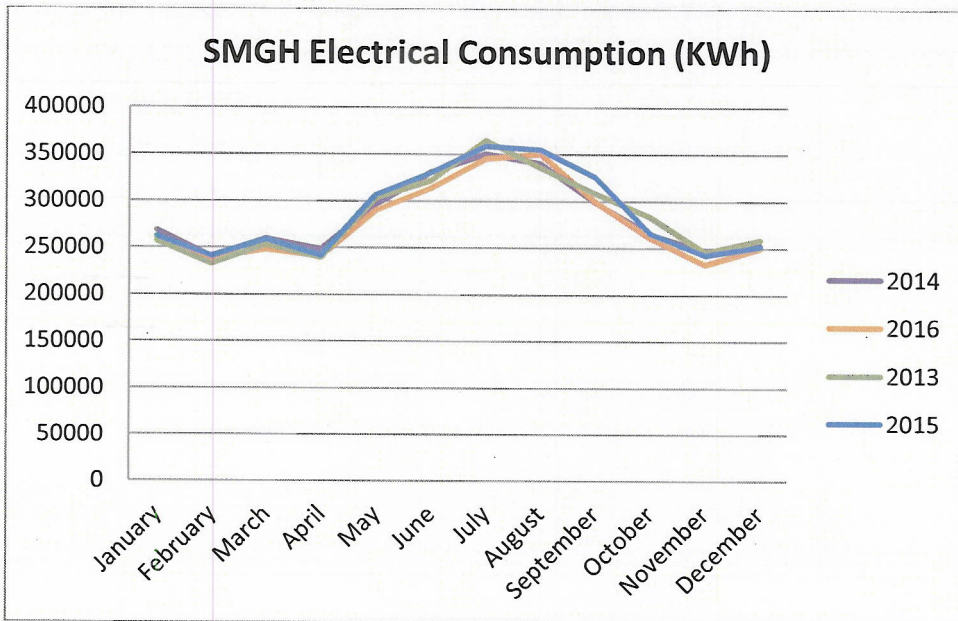
## **Save on Energy**

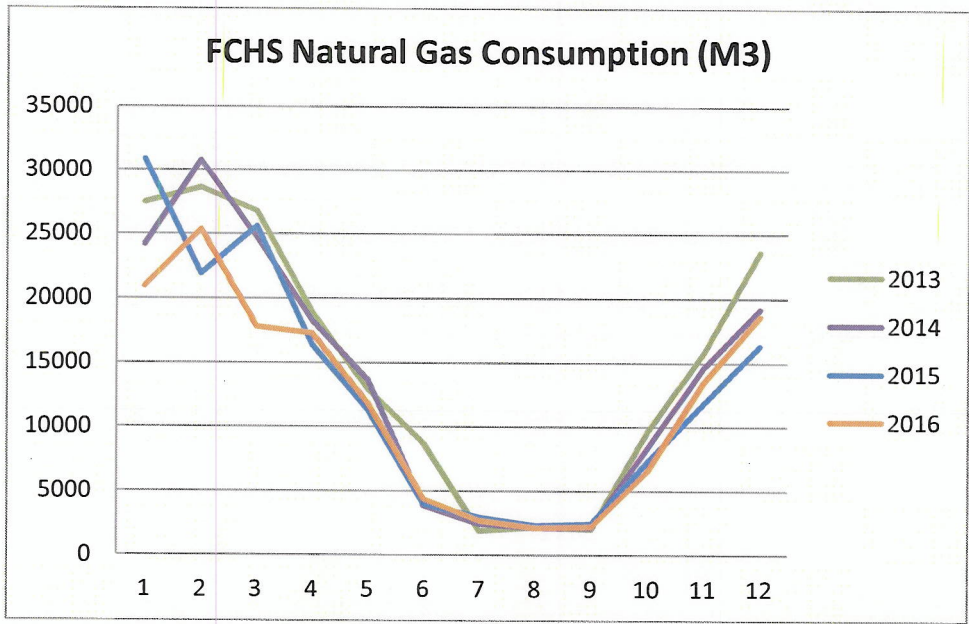
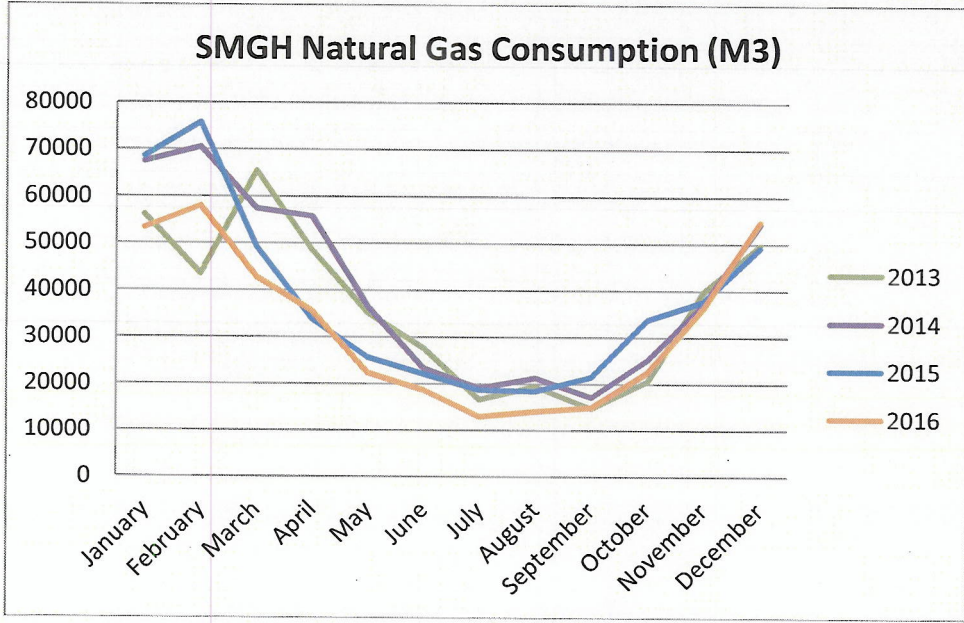
MHA has been working with both Union GAs and Entegrus to obtain Energy Incentives thru the Ontario Government Save on Energy program.

In total MHA have completed 15 projects and have submitted 12 projects for review by Union Gas and Entegrus. This has resulted in \$28980 in incentive grants to date.

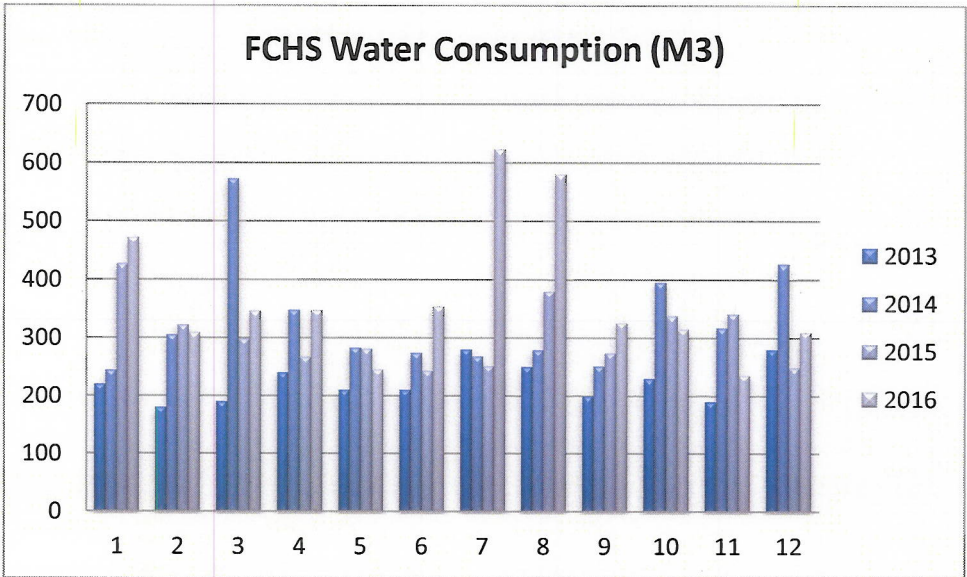
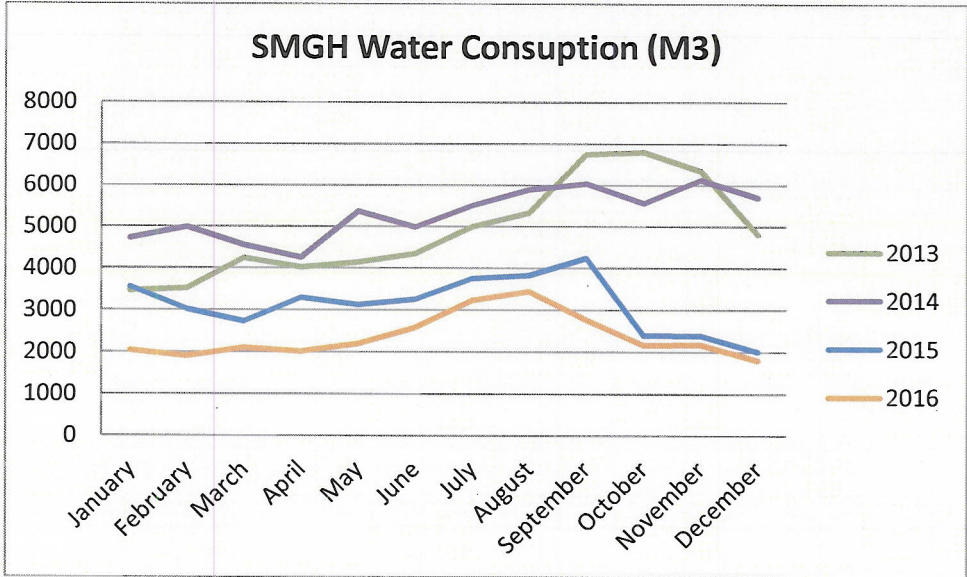


# Annual Energy Consumption Data











## Timeline and Responsibilities for Plan Adoption and Implementation

Measure	2013	2014	2015	2016	2017	2018	2019
Report energy consumption as per O.Reg 397/11	Complete	Complete	Complete	Complete	Complete		
Complete an Energy Conservation and Demand Management Plan		Complete					
Obtain approval of SEMP		Pending					
RFP to select an Energy Performance Partner	Pending	Complete					
Energy Performance Contract		Pending	Pending Approval	Ongoing	Ongoing		
Ongoing monitoring and verification of energy conservation measures			Pending (to begin at end of installation phase)	Ongoing	Ongoing	Ongoing	Ongoing
Improved awareness and communication of energy conservation		Pending	Ongoing	Ongoing	Ongoing		
Monitor energy commodity cost	Increased water and sewer monitoring Ongoing for Electricity and Natural Gas	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
Track and report on SEMP			Implement Process Update		Ongoing		