

St. Joseph's Residence Energy Achievements

- 2 Co-generation plants installed in boiler room
 - make 1/3 of the power and make hot water for a fraction of the cost.
 - Large boilers run a lot less, saving fuel and repair costs.
- Interior lighting changed in 2016 to LEDs
- Spring 2017 starting replacement of kitchen exhaust hoods
- Improved recycling



St. Joseph's Residence Sustainability Actions

- Working to increase facility recycling rate
- Buying laundry detergents for low temp water use
- Reduced applications of lawn chemicals
- Installed a unit for the cooling tower that keeps the water clean (eliminates all use of chemicals with pumps).



**St. Joseph's Residence
Energy Use
2014-2016**

	2014	2015	2016
Natural Gas (ccf)	145,100	144,260	134,610
Electric (kWh)	1,309,349	1,211,566	1,211,583
Water (gal)	5,110,404	6,414,688	9,606,869

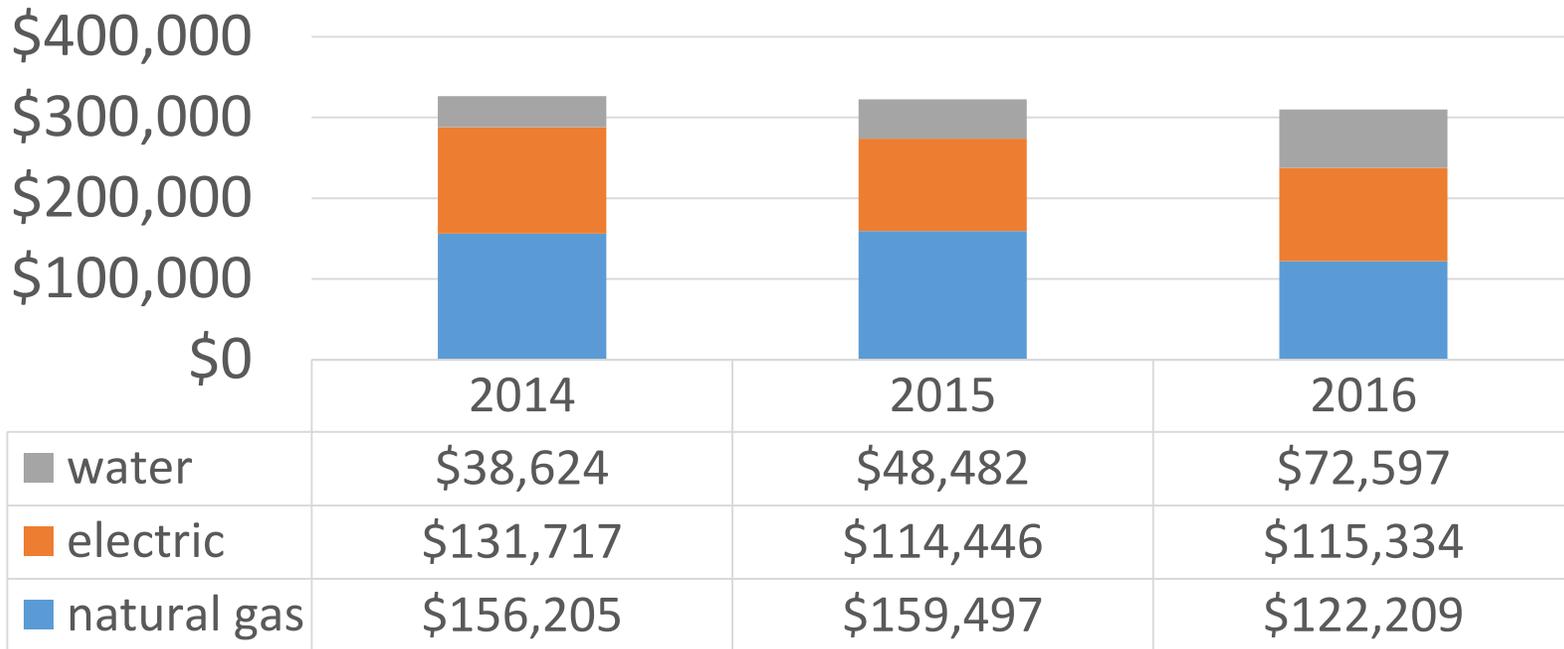
2014 to 2016 Changes

Electric use -7.5%

Natural Gas use -7.2%

Water use +46.8%

St. Joseph's Residence Total Energy Cost (\$) 2014-2016



■ natural gas ■ electric ■ water

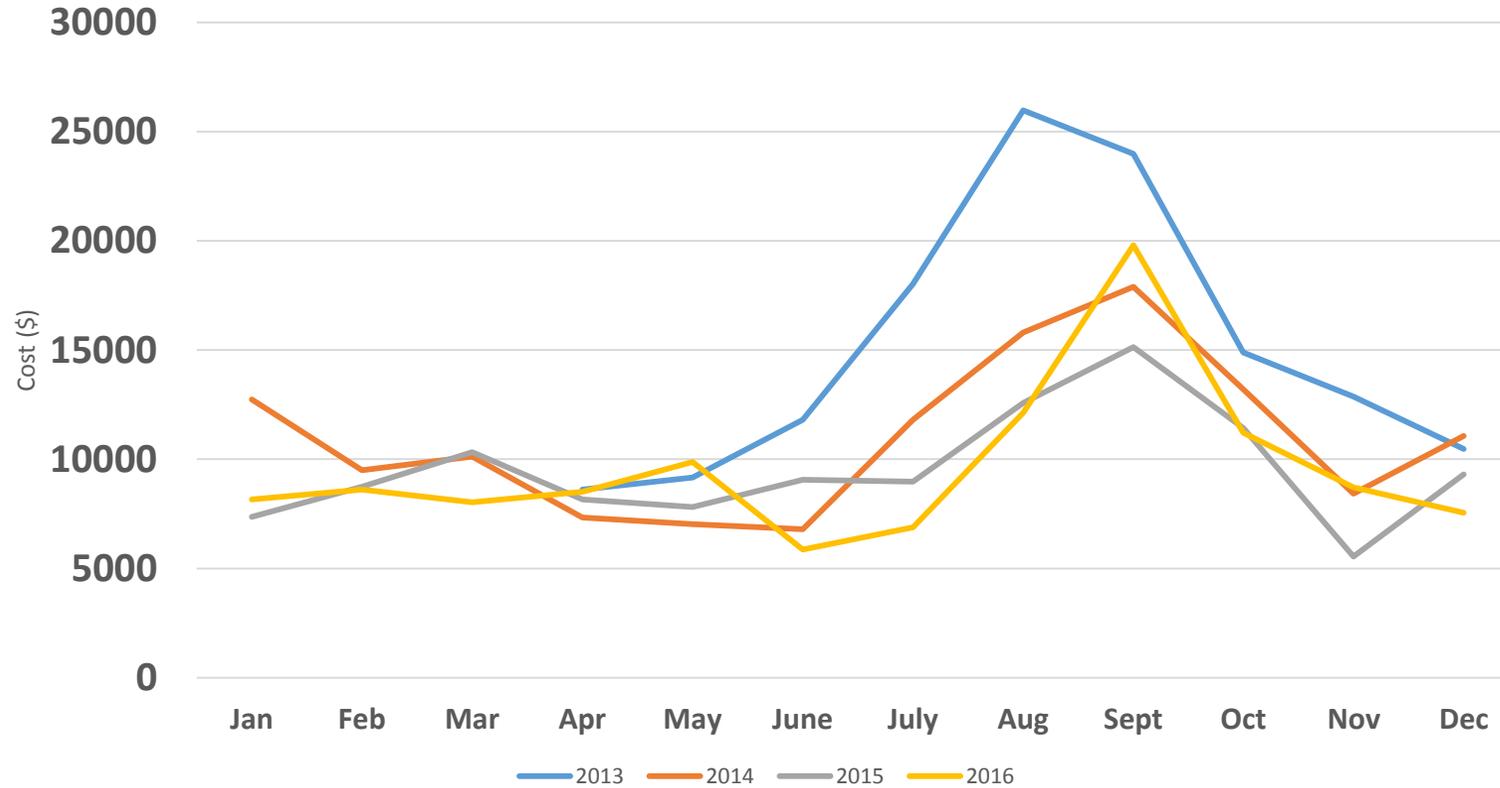
2014 to 2016 Changes

Electric Cost -12.4%

Natural Gas Cost -21.8%

Water Cost +46.8%

Electric Cost (\$) St. Joseph's 2013-2016



St. Joseph's Residence Opportunities

- Getting quotes on windows to seal up the building from outside elements
- Replace 47-year old Through-the-Wall AC units with high efficiency units
- Slowly replacing exhaust fan motors on the roof top with efficient ones
- Looking for boilers (maybe next year)
- Focus on water use
- Continue recycling efforts and Re-evaluate the waste hauling contract
- Explore leased solar installation (roofs are in good condition)

