

Memorandum

To: San Miguel County Board of Commissioners
From: Nina Kothe
Date: March 9, 2016
Re: Annual County Energy Report – County Facilities & Public Outreach

This report will outline 2015 energy efficiency efforts within County facilities and will summarize plans for 2016 toward helping homes and commercial buildings attain greater efficiency as well.

Highlights of County efforts to reduce energy and fuel use for County purposes include the following:

- The 2014 annual report documented a reduction in overall electric usage for County facilities by 9% over 2013. 2015 shows a further 2.7% reduction for the year. This reflects \$4,893 in savings from 2014. Electric use reductions continue to be achieved predominantly through phased retrofits to LED lighting. The latest LED installs were in the Glockson offices and the Ilium Sheriff's facility. We continue to perform a gradual lighting retrofit throughout the Courthouse. The County utilized the Tri-State rebate program for the Glockson Building and the Green Lights program for discounts on other lighting purchases. For 2016 the Fairground Event Center is the next facility slated for a significant LED retrofit.

Overall Electric Costs	
2013	\$104,109
2014	\$95,906
2015	\$91,013

- Natural gas usage was reduced by 8% between 2013 and 2014, with an additional 2.5% reduction between 2014 and 2015. NG use tends to be more influenced by annual seasonal differences in climate, but overall the county has experienced a steady reduction in natural gas use over three years. The financial savings to match these reductions with SourceGas has not occurred. Although commodity charges have remained flat, fees on this utility have increased by a small amount.

2013	\$24,587
2014	\$24,074
2015	\$25,508

- Unleaded fuel use is also showing a 10.3% decrease over three years topping at 37,248 gallons in 2012 and down to 33,430 gallons in 2015. The cost savings with the addition of lower fuel prices is almost half, \$122,458 in 2012 and \$69,948 in 2015. These numbers include the Sheriff, fleet use and Road Department unleaded fuel. Most of the use savings can be attributed to the purchase of more fuel efficient fleet vehicles in our replacement program.
- CO2 emissions overall in County facilities and vehicles have been reduced by about 8% over five years. The reduction is greater taking into consideration the County has added new facilities such as the Down Valley and Placerville restrooms and the Schoolhouse. The other considerations include expanded IT infrastructure throughout our offices.

Highlights of activities for the greater region:

- The County staff has continued participation with the Sneffels Community Energy Board and works in coordination with EcoAction Partners in energy program outreach to businesses, homeowners and renters including the Green Lights LED program. The County will be partnering with EcoAction Partners, SMPA, the Town of Mountain Village and the Telluride Ecology Commission to sponsor a public forum on June 2nd featuring renewable opportunities including the SMPA IQ Income Qualified Weatherization/Solar project and other building efficiency related topics.
- County Building Official Doug Barry plans to update the energy and building codes for the county this year. While the San Miguel County Prescriptive Energy Code and Green Building Standard was progressive at its time of adoption it is now in need of revision. The County building and energy codes need to be maintained today more than ever and be compatible with other local jurisdictions.

Recommendations

San Miguel County has performed a majority of the identifiable energy efficiency projects for our buildings based on some professional recommendations and our own expertise. Staff recommends that a professional energy engineering consultant may be able to help the county move toward even greater efficiency and provide a detailed and prioritized report on our larger facilities such as the three administrative buildings (Miramonte, Courthouse and Glockson) and the Sheriff’s facility. As major systems and infrastructure wear and require replacement, particularly in the area of HVAC and building envelop (i.e. windows/doors, and roofing), the County will benefit from significant advances in efficiency in all of these areas.

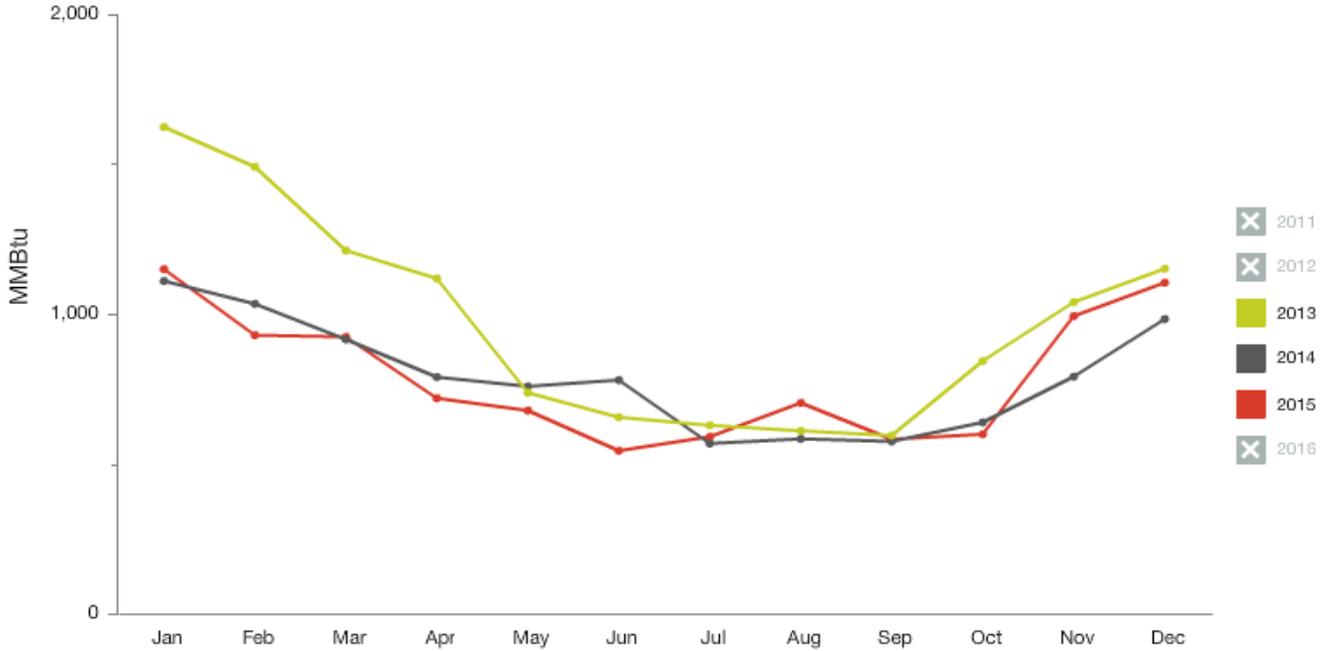
Combined all San Miguel Facilities, Utilities and Unleaded Fuel

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Usage Trend
(FY ends in Dec of year shown)



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Cost Trend
(FY ends in Dec of year shown)

