

MEMORANDUM

TO: Mayor and Town Council
FR: Bob McLaurin, Town Manager
DT: December 4, 2017
RE: Town Manager's Report

Spot Safety Improvements for Bicycle and Pedestrian Areas

The Pathways program is working with consultants Mobycon to develop a couple rough concepts for spot safety improvements in areas of high bicycle and pedestrian usage. Mobycon is a Dutch transportation consulting firm with offices in the US that specializes in applying international best practices and the principles of sustainable safety to projects in North America and around the world. Pathways will provide background information and work cooperatively with Mobycon and Friends of Pathways to develop rough concepts to visualize what street design that maximizes safety and accessibility for all users would look like. The concepts could spur possible temporary demonstration projects or test segments. Friends of Pathways will cover 50% of the funding (approx. \$10k) to look at 3 project areas, with the Town of Jackson covering the other half with FY18 pathway funds.

Guiding and Promoting Sustainability Snapshot

Attached to the Town Manager's report is a snapshot of our GPS initiative that shows our progress in FY2017 that ended June 30, 2017.



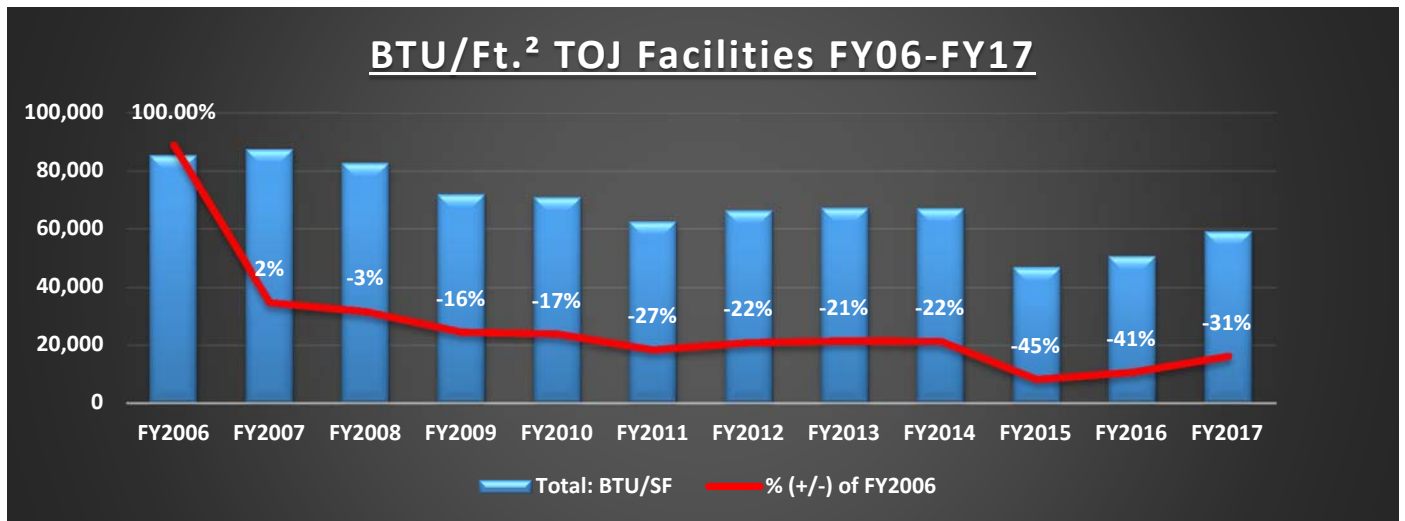
Policy Statement

40 x 20 Energy Efficiency Goal's

With comparable or improved levels of service,
Snapshot of Fiscal Year 2017:

1. We will be 40% more energy efficient with all Town facilities by June 30, 2020 from FY2006 as measured on a square foot basis.

Comparing FY2006 to FY2017, all Town facilities are down 31% Btu/ft.² without using the square footage and energy data from the Parking Garage. As a result, we are **31%** more efficient than we were in FY2006. If we included the Parking Garage, we are **65%** more efficient than we were in FY2006.



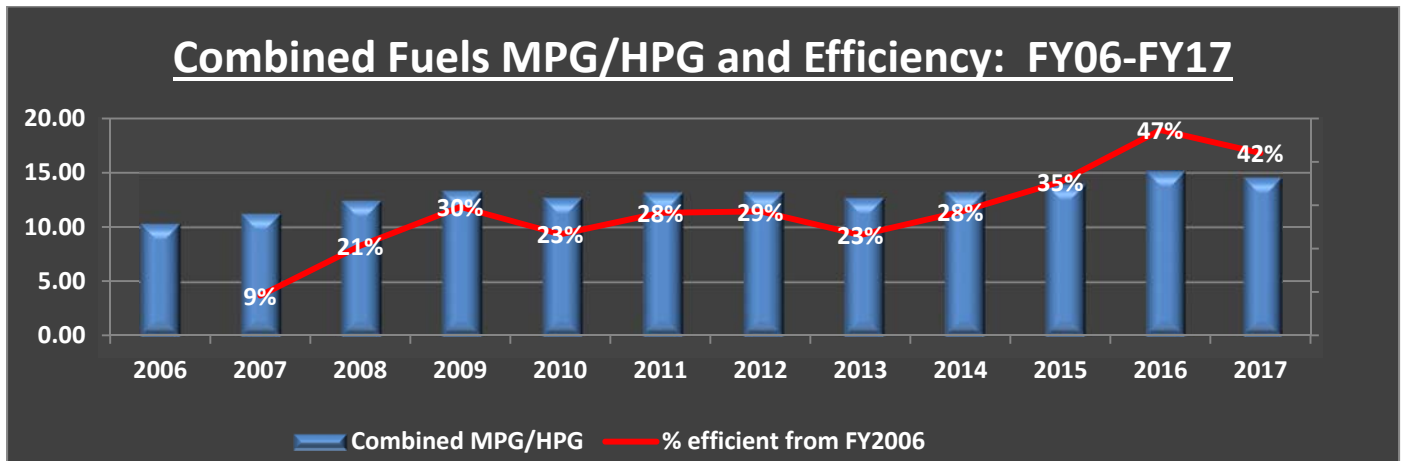
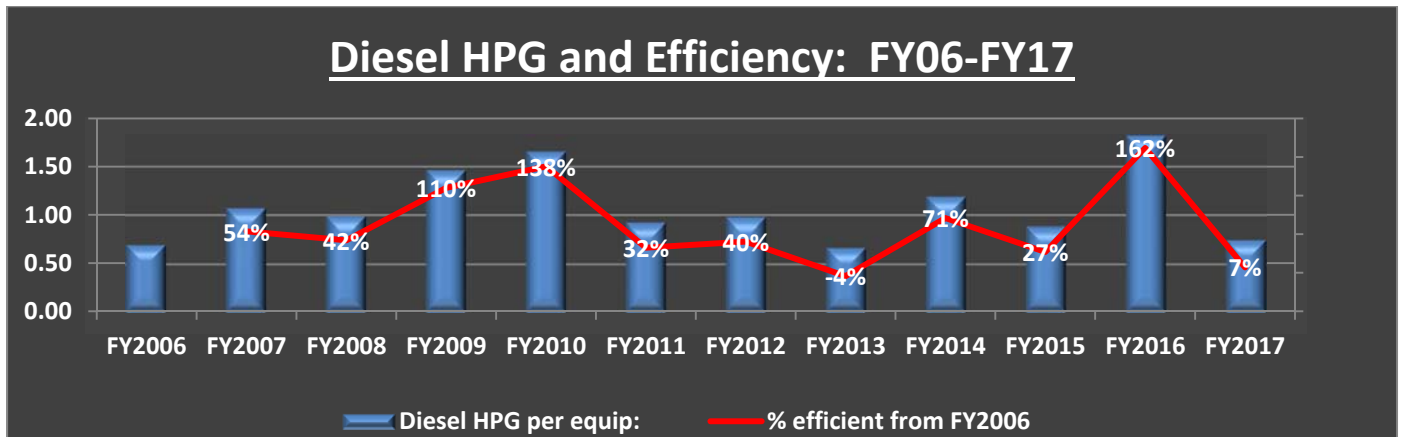
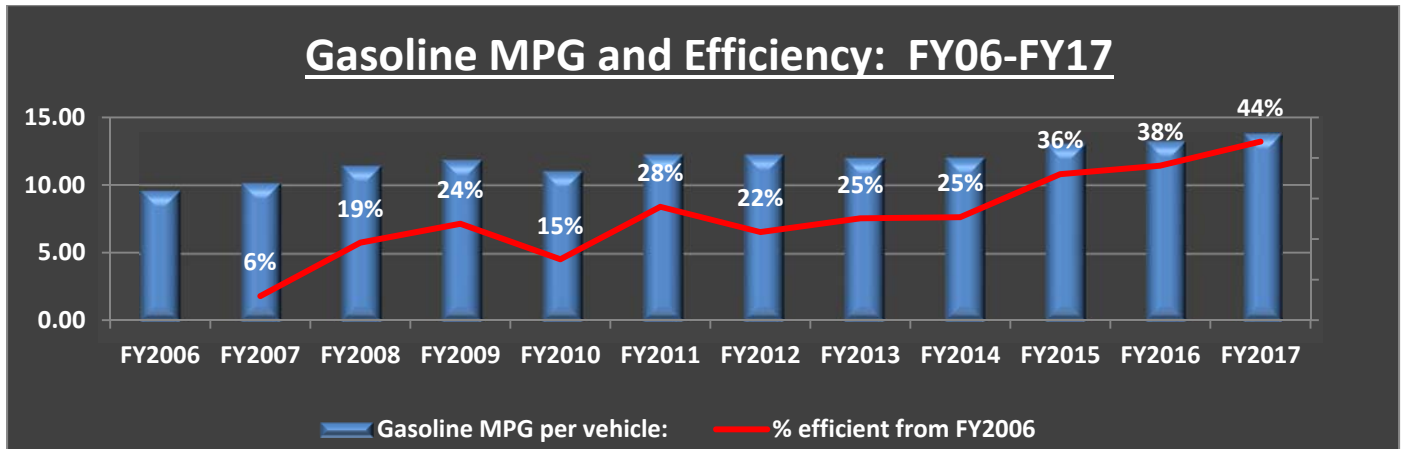
2. All Non-START Town vehicles and equipment will be 40% more fuel efficient by June 30, 2020 from FY2006.

Comparing FY2006 to FY2017, we are still making progress in achieving this goal. Compared to FY2016, diesel efficiency was down and gasoline efficiency was up.

Diesel = (FY06: 0.70 HPG vs. FY17: .74 HPG). A **7%** increase in efficiency.

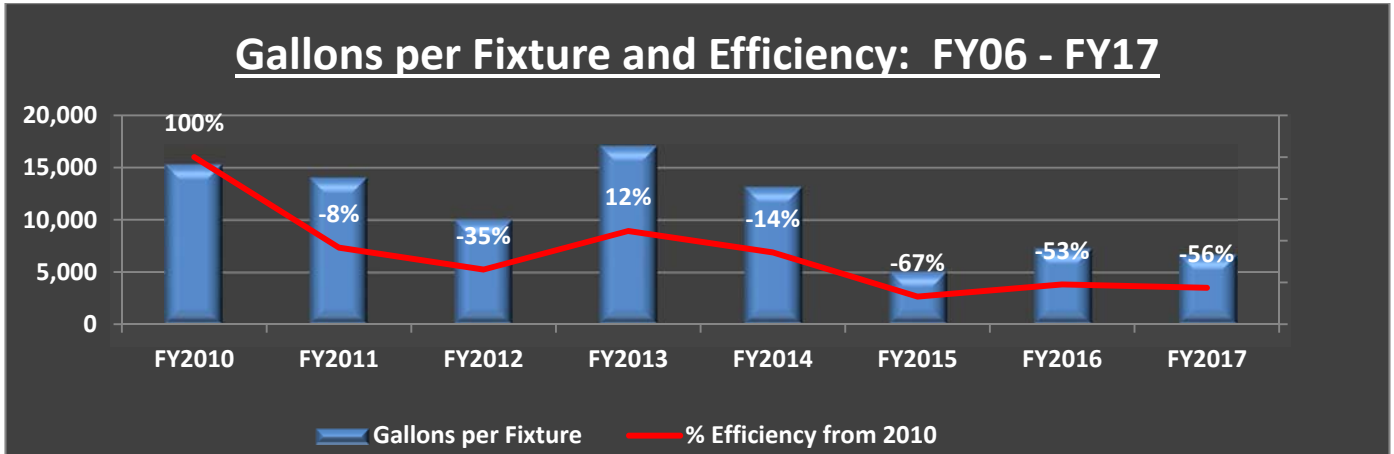
Gas = (FY06: 9.59 MPG vs. FY17: 13.8 MPG). A **44%** increase in efficiency.

Combined Gas & Diesel = (FY06: 10.28 vs. FY17: 14.55). A **42%** increase in efficiency.



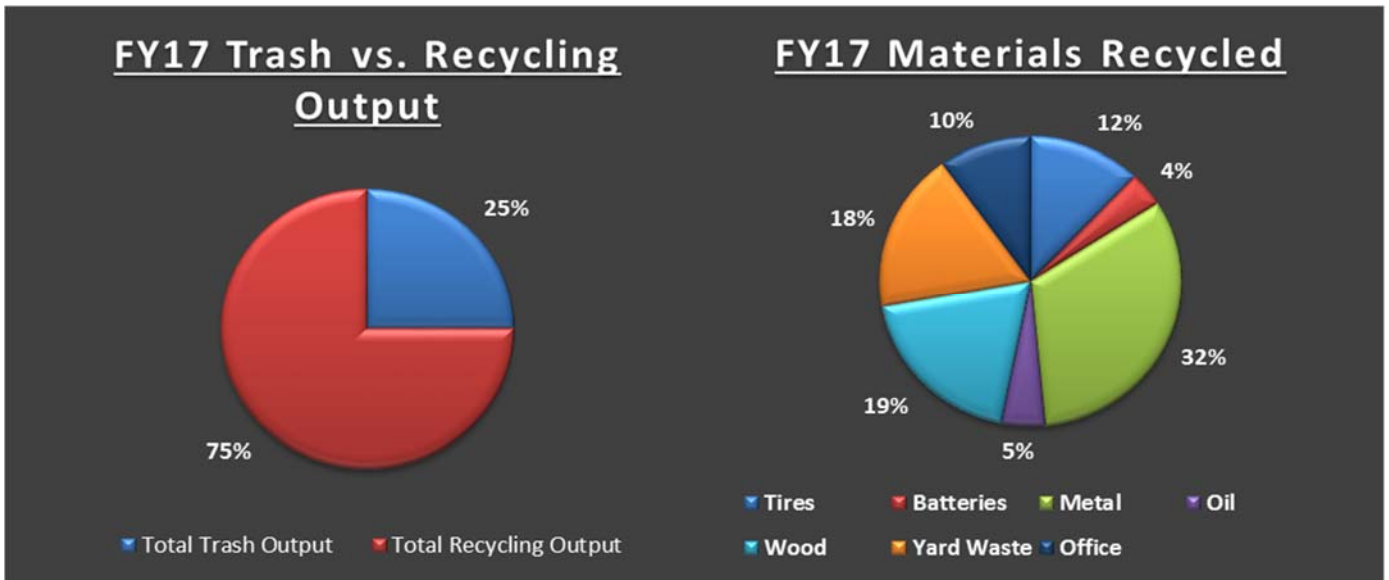
3. We will be 20% more efficient with Town of Jackson water consumption by Town facilities by June 30, 2020 from FY2010.

Since this goal is a new goal and one that was not included in the 10 x 10 Initiative, our baseline year starts in FY2010. Comparing FY2010 to FY2017, our facilities increased our water usage efficiency by 56%.



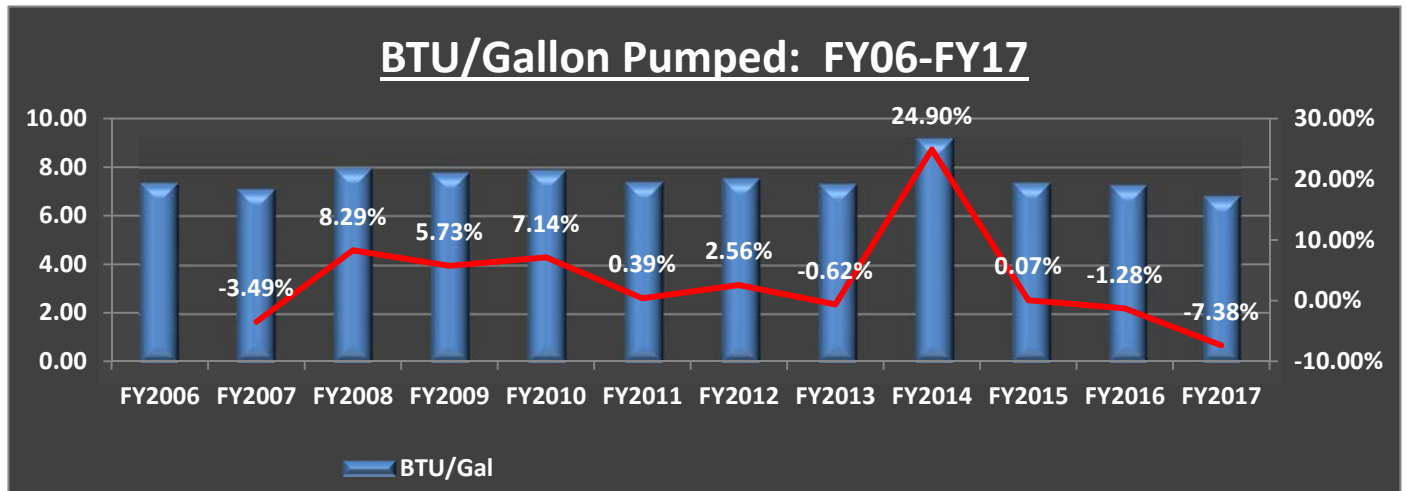
4. We will divert 50% of our waste stream by June 30, 2020.

This goal is a new goal as well and was not included in the 10 x 10 Initiative. There is no baseline associated with this goal, therefore, we will be tracking our success every fiscal year. Many Town departments continue to work together to meet this goal. For fiscal year 2017, we show a 75% diversion rate.



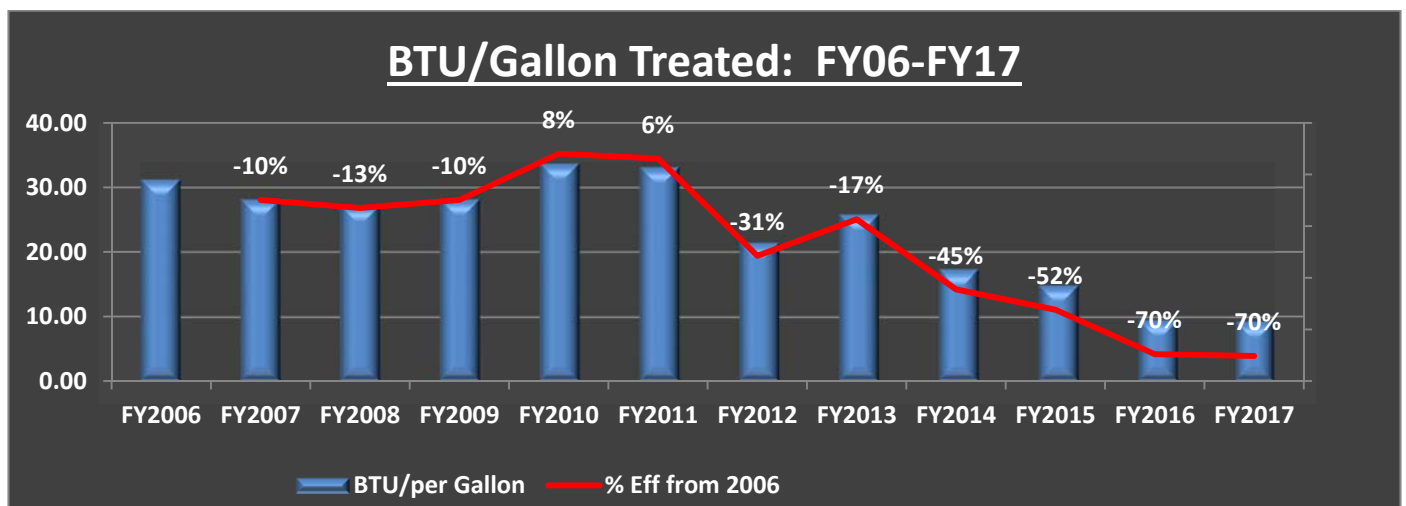
5. We will be 20% more energy efficient in producing water for our service area by June 30, 2020 from FY2010.

Comparing FY2006 to FY2017, we are **7.4%** more efficient pumping a gallon of water. We have a lot of work to do if we are going to achieve any reduction in BTU's per gallon of water pumped.



6. We will be 40% more energy efficient per gallon of wastewater treated and discharged through our Wastewater Treatment Plant by June 30, 2020 from FY2006.

Comparing FY2006 to FY2017, the Wastewater Treatment Plant is **70%** more efficient treating a gallon of water before discharge into the Snake River. The Treatment Plant was 70% efficient in FY16 and the operators were able to maintain that efficiency for FY2017, even considering they received more flow.

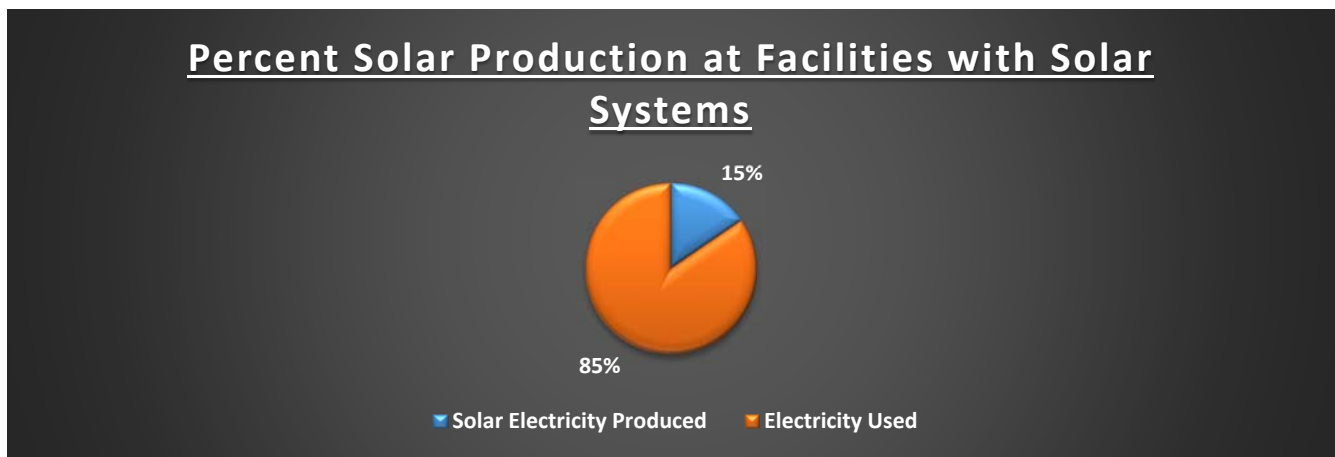


7. We will maintain 100% of the electrical energy used for Town operations from renewable energy sources.

In a unique partnership with Lower Valley Energy, the Town purchased ALL of the electrical renewable energy needed to operate 100% of our operations in FY2017 from the certified hydro-electric plant in Etna, Wyoming on Strawberry Creek.

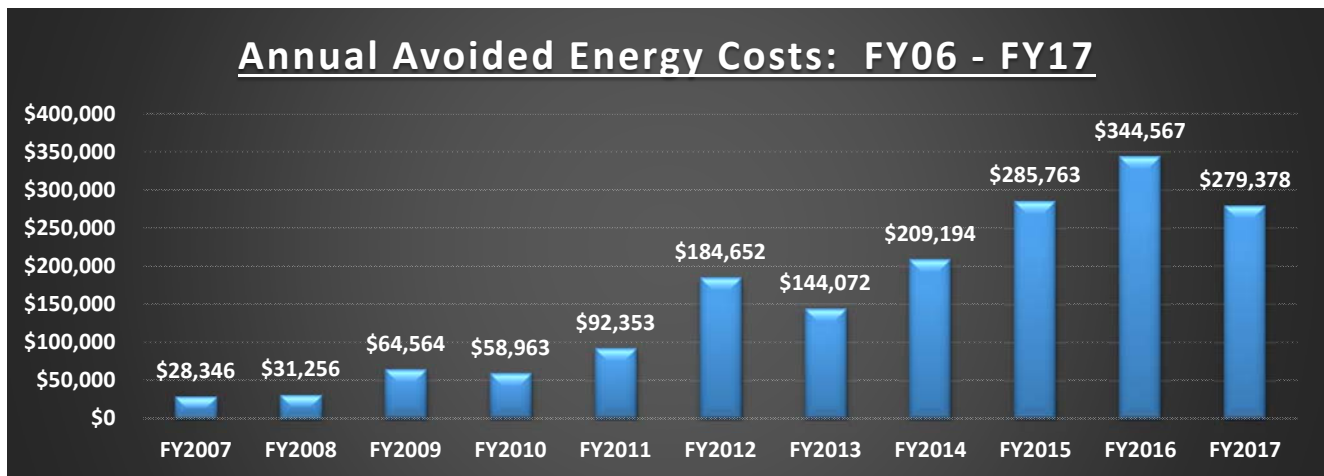
7(a). Solar Production

Though we do not have a goal associated with solar production, I have included a snapshot of our solar production. Currently, the Town of Jackson owns and operates 429.3 kW of solar farms located both on roof mounts and ground mounting systems. During the course of FY2017, our PV systems produced 572,514 kWh's of energy, which is enough electricity to power 57 homes for a year.



7(b). Avoided Energy Costs

Though we do not have a goal associated with avoided energy costs, I thought to include it to give additional perspective on our energy efficiency goals. From our FY06 baseline year to FY17, we have avoided **\$1,723,109** in energy costs.



7(c). Avoided Tons of CO2

Carbon offsets based on energy efficiency rely on technical upgrades to reduce energy consumption, renewable energy from displaced energy production, and therefore, reductions in CO2 emissions. Again, though we currently do not have a goal associated with tons of CO2 avoided, I wanted to include this information as additional perspective on our energy goals. From FY06 to FY17, the Town has avoided the emission of **2,553** tons of CO2.

