



Date of Council Meeting: March 28, 2016

**TOWN OF LEESBURG
TOWN COUNCIL WORK SESSION**

Subject: Energy Consumption Tracking and Analysis Program

Commission Contact: Spencer Morgenthau, Environmental Advisory Commission Vice
Chairman

Council Action Requested: The Environmental Advisory Commission respectfully requests that the Council implement a program for energy consumption tracking and analysis.

Staff Recommendation: None at this time.

Commission Recommendation: The Environmental Advisory Commission (EAC) recommends the Town adopt a Town-wide energy tracking and analysis program, and use the gathered information to enact energy conservation cost saving measures that demonstrate a good return on investment.

The EAC recommends that Council provide the resources necessary to implement utility use tracking and reporting starting July 1, 2016 as part of the Fiscal Year 2017 Town budget. The EAC also recommends Town staff be directed to identify the process and associated costs (such as software) for inclusion in the Fiscal Year 2017 Town budget.

The program should include the following:

- Centralized data collection and analysis using smart meters and/or submeters for the Town's six largest energy users including the Water Pollution Control Facility, Ida Lee Park Recreation Center, Water Treatment Plant, Streetlights, Airport, and the Public Safety Center. Many of the Town's gas and electric meters at these facilities have already been updated with the smart utility meters. If any additional meter installation should be required for data gathering the cost should be negligible.
- Monthly reporting made available to public of utility consumption and cost for the six largest energy uses in the Town.
- Analysis of energy use on a regular basis comparing monthly usage both with the prior month and prior year consumption figures based on weather normalized data. Data should be stored and analyzed each year and compared to normalized data for a minimum of the most recent 3 years. Data should be provided in energy intensity metrics for each facility (i.e. kBTU/SF for buildings or kWh/gal for water treatment) and benchmarked against similar facilities operated by comparable municipalities in the region.

EAC Energy Tracking Recommendations

March 28, 2016

Town Council

Page 2 of 2

- Each year, the Town budget should include an analysis of energy use and a prioritized list of energy conservation measures that could be implemented to save the Town money based on the anticipated return on investment of the measure.

Fiscal Impact: Not evaluated at this time.

Work Plan Impact: Not evaluated at this time.

Executive Summary: Every year the Town spends nearly \$2,000,000 on energy consumption related to electricity and natural gas. Currently, there is no centralized tracking and analysis of energy usage in the Town, aside from each individual department monitoring monthly charges and bills. The Environmental Advisory Commission goal is to identify energy conservation measures that could be implemented to reduce the Town's energy consumption and save the Town money.

Background: Over the past 12 months, the Environmental Advisory Commission (EAC) has gathered and reviewed energy consumption information from major Town operations including the Water Pollution Control Facility, Ida Lee Park Recreation Facility, Water Filtration Plant, Streetlights, Airport, and the Public Safety Building.

The effort included conducting informal interviews with some of the staff who oversee the programs with the highest energy use. Based on that analysis, the EAC recommends the Town implement a strategy to proactively manage energy consumption for these programs. Essential to the approach is using better tools to track the data and clearly establish staff responsibilities for the program. With better data, the town can more effectively identify, prioritize, and financially justify future conservation efforts while reducing environmental impact and saving tax payer dollars.

Attachments: None.