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MEMO

The Cape Elizabeth Facilities and Transportation Department manages all of the physical plants and sport fields for the town and schools. This equates to about 37 different buildings, 750,000 square feet of facilities, 7 athletic fields, and a turf field managed within the department. The Facilities and Transportation Department works with all school and town administrations and departments with a large working relationship with the Public Works Department as a part of its regular operations.

The Facilities and Transportation Department was created in 2009 during the budget process and placed into operation in 2010. Since its inception it had a large focus on long term facility management, energy reductions, and updating our infrastructure throughout the community.

In 2010 a major relamping project was conducted in many of the town and school facilities with a focus in cost electricity usages. The cost for this program was offset with a large rebate from Efficiency Maine with a payback period of 3 to 5 years. Since then a departmental policy has been established regarding lighting upgrades that requires any lighting upgrades shall be the latest in energy efficiency fixtures and a large focus on LED lighting. Over the past 7 years the community has continued to see a decrease in electrical costs in our facilities. During the summer of 2011 the department upgraded the boiler plants at the high school with a first year fuel oil saving of 20,000 gallons, which has provided a payback period of 9 years, the same format was undertaken for Pond Cove and the middle school in 2014 which represented a reduction in the first season of 14,000 gallons.

During the high school boiler upgrade project both the high school and middle school were outfitted with an evacuated tube domestic hot water pre-heating solar array. These systems have a payback term of 9 years. The middle school system has been able to provide for all of the domestic hot water needs for most of the summer from June to August and into September depending on the weather.

The Department also handles all energy purchasing less road fuels for all town and school facilities. Over the past year we were able to reduce our costs for electricity by .01 per KWH, oil pricing has trended down for the past several years with a 20016/2017 heating season rate of \$1.49 per gallon and \$1.92 per gallon for propane. We continue to watch the markets and purchase energy related commodities when the price is low thus saving the community thousands of dollars annually.

This year the Donald Richards Pool underwent a major mechanical renovation, this includes a new dehumidification unit, gas fired boilers, and chlorinating system. The new equipment is not only much more operational efficient , we put measure in place which will allow us to operate the heating side of the system by propane or heating oil, which one is cheaper at any given time. These operational changes give the community a saving in energy costs but in addition it reduces our green house gases emissions.

As we go forward we continue to look at different options to not only reduce energy costs, but additionally green house gases emissions reducing our carbon footprint. Cape Elizabeth has opportunities to meet these goals with the addition of solar arrays on buildings, possible micro grid or another type of system that can provide the community with a good return on their investment.