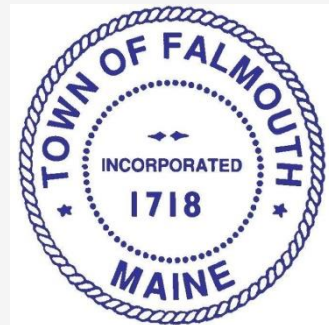


Submitted to the
Falmouth Town Council
April 13th, 2015



Progress Report

Of the 2008 Green Ribbon
Commission Report
By the Recycling and
Energy Advisory Committee
(REAC)



Background (2007-2010)

- Town signed the U.S. Mayor's Climate Protection Agreement—to reduce emissions
- The Town Council→ ad hoc **Green Ribbon Commission** on Energy and Climate Protection
- Emissions inventory and climate protection recommendations for action—goal 2% annual reduction
- Following categories: energy efficiency, renewable energy and fuel switching, transportation and land use, and waste and recycling

Municipal Energy Inventory— 2007/2012

- *Municipal energy use being monitored*
- 2007—4,813 metric tons CO₂e
- 2012—5,129 metric tons CO₂e

This represents a **6.5% increase in 5 years.**

Changes since 2007

- Waste Water—major upgrades in 2007 +5 new pump stations added
- Police & Elementary School new LEED buildings
- Town Hall opened 4 days vs. 5
- Bucknam Fire Dept. 24/7 and built addition
- Plummer/Lunt/Mason-Motz changes
- Fuel switching
- 102,310 increase in sq. footage—23.6% increase

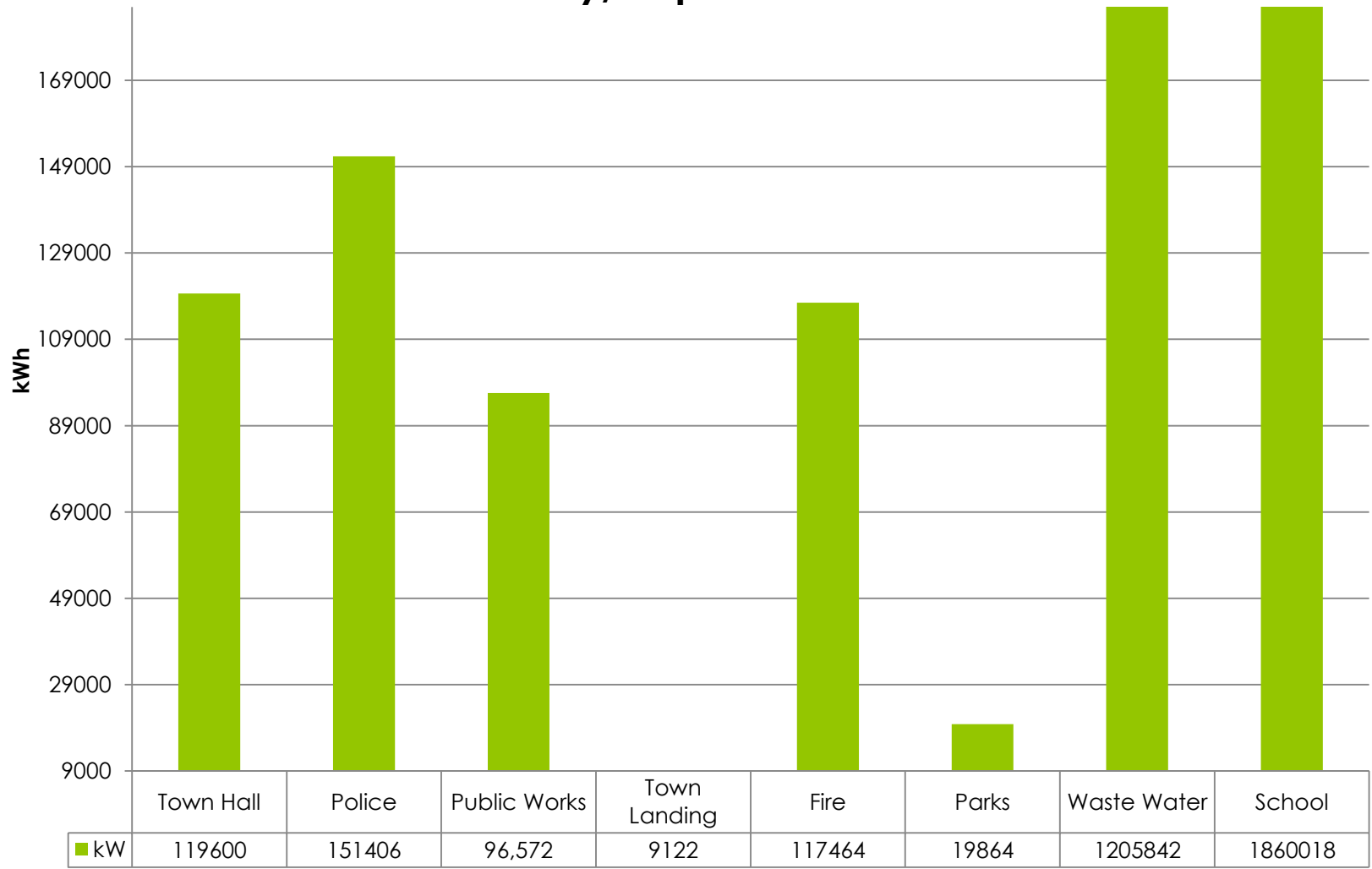
Municipal Energy Inventory— 2013 and 2014

- 2012—5,129 metric tons CO₂e
- 2013—4,988 metric tons CO₂e

Decrease could be attributed to the final sale of the Plummer building—10,275 gallons of oil were being burned every year

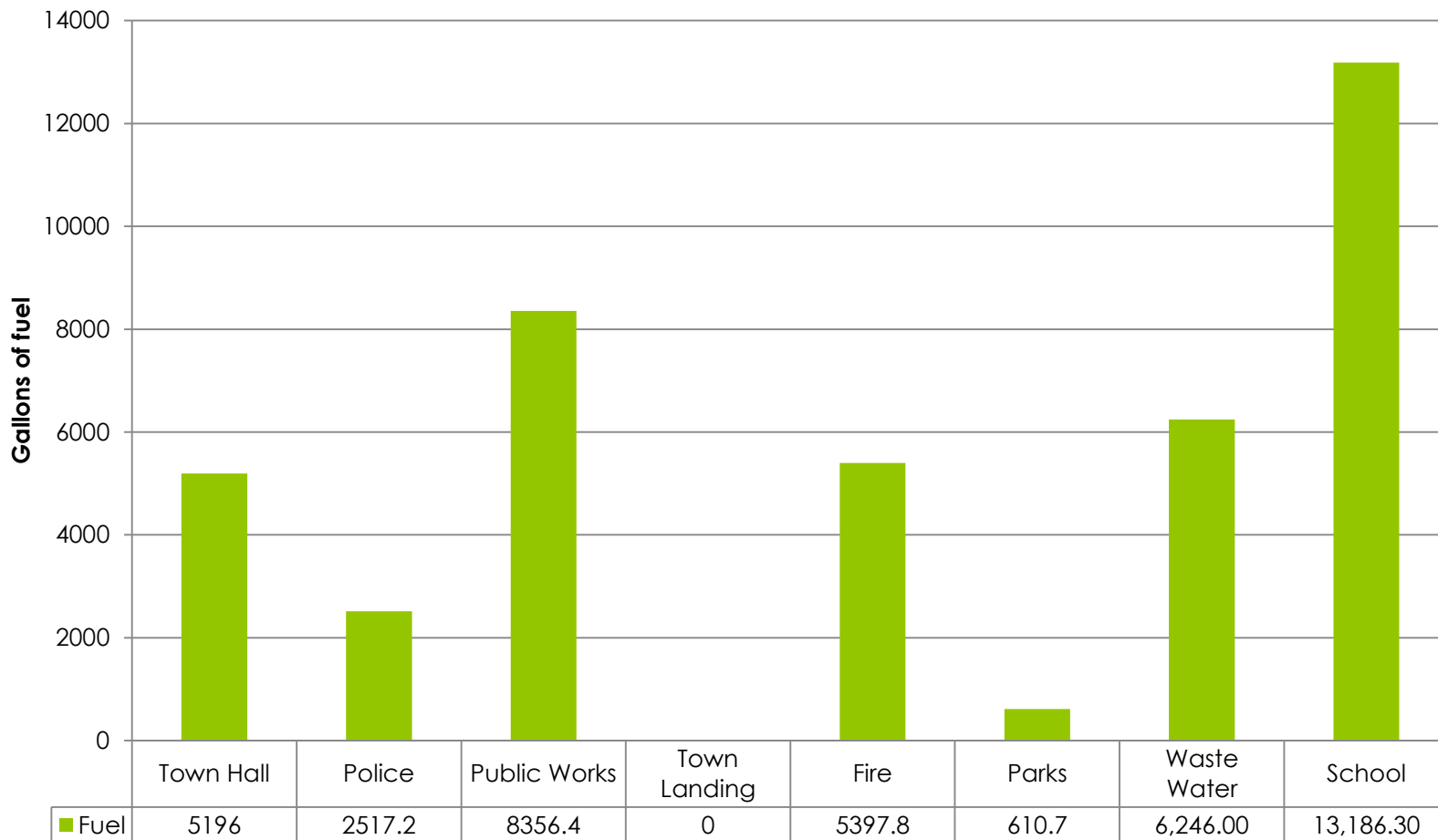
- 2014—Final assessment underway
- *Projected electricity budget increase of 34% between 2013 and FY 2015/2016—figure of concern

Electricity/Department—2013



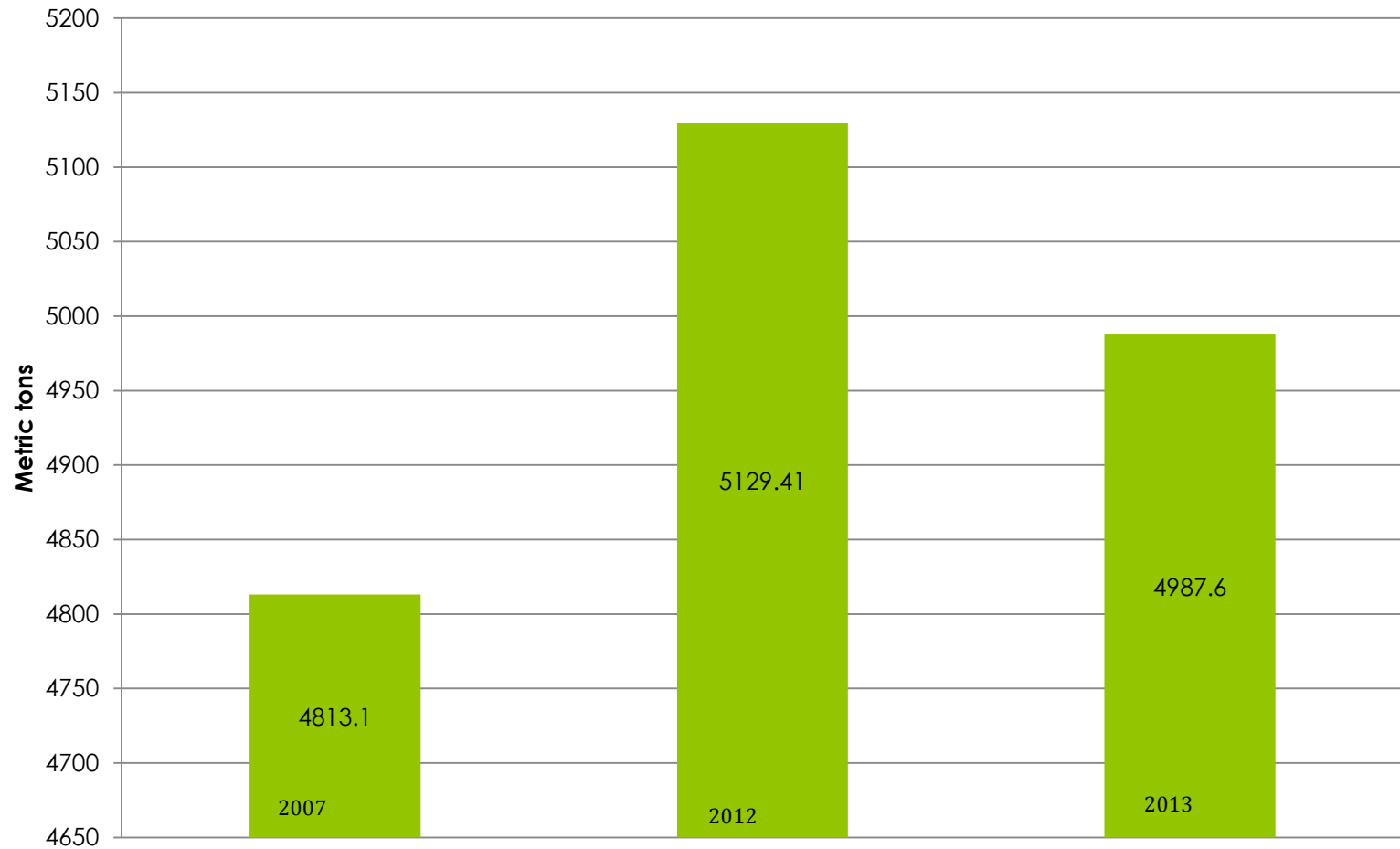
Department

Fuel Usage/Department—2013



*School does not include the Superintendent's office—or the additional 2,497 tons of woodchips used

CO₂ Equivalents—Years 2007, 2012 & 2013



Green Ribbon Commission Recommendations—Status Updates

- Energy Efficiency
- Renewable Energy and Fuel Switching
- Transportation and Land Use
- Waste and Recycling

Energy Efficiency

- **Home Construction Policy**

REAC will create a handout with information

- **Install Cold Climate Heat Pump**

Motz Community Center

- **Ordinance for LEED municipal Buildings**

Municipal Building Policy to require energy efficiency considerations—including lighting.

Renewable Energy and Fuel Switching

- **Group or regional initiatives**

Community/municipal solar potential—natural gas being pursued

- **Ordinance to allow wind power installations**

Work with Codes to allow residential wind

- **Monitor School Dept.'s installations**

Monitoring use—cost-benefit analysis of future renewable installations—looking into grant funding

Transportation and Land Use

- **Comp Plan—land use, transportation and climate change**

Comp. Plan adopted in Dec. 2014—includes Smart Growth Policies, connecting streets and sidewalks, bike lanes, open space preservation etc.

- **Trails Committee—Connecting trails for transportation**

REAC will promote trail use as a part of energy saving through education and outreach programs

- **Municipal Vehicle Efficiency Policy—**

Establish a policy to encourage purchase of low or no-emission vehicles

Waste and Recycling

- **Business Recycling Program—Buildings larger than 20,000 sq. feet**

Energy and Sustainability Coordinator will be working with business—TIF

- **Ordinance to require trash/recycling containers in public places**

“Reduce, Reuse, Recycle” education campaign

- **Research policies to reduce litter in Falmouth**

Single-use/reusable bag Ordinance—monitor Portland on styrofoam ban

Questions?

- Discussion on update of Green Ribbon Commission Report...

Town and School Energy Plan

Required Contents from the Town Council

- Create a town and school department Energy Plan which is **measurable, outlines guidelines for new installations of alternative energy, continues to pursue town-wide natural gas options, life-cycle cost analysis for each initiatives, town energy discussion (role of offsets), commitment to reducing fossil fuels, priorities for future initiatives, outline of any deemed necessary and recommended policies not already adopted.**

Town and School Energy Plan

Potential Table of Contents

- **Background**—Green Ribbon 2007-present
- **Emissions Inventory**—Using 2012 as baseline—followed by years 2013-present
- **Goal and Objectives**—use the 2% goal?
 - Commitment of reducing fossil fuels—role of offsets
 - Energy efficient policies/ guidelines
 - Life-cycle cost analysis
- **High Priority Recommendations**— those previously mentioned—others likely to be included

Town and School Energy Plan

Potential Table of Contents

- Background
- Emissions Inventories
- Goals and Objectives
- High Priority Recommendations

**Open discussion amongst Town Councilors
to offer feedback and/or guidance to REAC
on expectations and next steps**