

## Implement Action Plan

Consistent with the action plans above, we have identified specific energy reduction projects. The CitySmart Pilot Project helped us conduct walk-through energy audits at the Police Station and Recreation Center. We will investigate the projects listed below in more detail in the future; however for now we have identified several potential opportunities to incorporate energy efficiency into our organization.

Building(s)	Energy Efficiency Opportunity	General Description of Opportunity	Est Payback (Yrs)	Est 7-Year Savings Potential
Police Station	Upgrade Lighting	Replace existing fixtures with high-efficiency "Super T8" lighting systems	2.2	\$80,000
Police Station	Replace Motors	Replace existing motors with high-efficiency motors	4.9	\$12,000
Police Station	Add Variable Frequency Drives	Add variable frequency drives to the large motors to reduce consumption when not operating at full load	1.7	\$75,000
Police Station	Control Vending Machines	Add vending misers to beverage machines	1.8	\$1,400
Police Station	Reduce Heating	Control interior temperatures more closely, reduce reheat that causes high natural gas bills in summer	0.1	\$100,000
Recreation Center	Upgrade Lighting	Replace existing T8s with "Super T8" lighting and replace metal halides with high-bay T5 HO systems	3.0	\$20,000
Recreation Center	Control Gym Lighting	Add occupancy sensors to the high-bay T5 HO lighting systems	6.4	\$3,000
Recreation Center	Control Vending Machines	Add vending misers to beverage machines	1.4	\$1,400
Recreation Center	Add Roof Insulation	Apply foam roofing material to raise "R" value of roof, lowering both heating and cooling costs	5.2	\$60,000
Recreation Center	Replace Rooftop Units	When replacing units, replace current electric heating units with gas-fired equipment (\$25,000 is <u>only</u> to cover incremental cost for changeover)	4.1	\$42,000
Various City Buildings	Upgrade Lighting	Replace all T12 lighting in city buildings with "Super T8" lighting systems. Replace all existing metal halides with high-bay T5 HO systems.	<3.0	Significant Potential
City Hall	General Lighting and HVAC System Upgrades	As part of the City Hall renovations, lighting upgrades and HVAC system replacements will significantly improve the efficiency of this building. Design of these improvements are on-going.	TBD	TBD

In addition to the energy and maintenance cost savings that will result from a given project, PPL will pay us cash incentives to offset some of the implementation cost. We will contact them before implementing any projects to learn more about eligibility, incentive amounts, verification process, etc.

## Recognizing Achievement

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In addition to participating in the CitySmart Pilot Project sponsored by PPL, we have already taken a number of steps to reduce our city's energy use:

Upgraded to more efficient fluorescent lighting & HVAC systems in many buildings

Upgraded all our city traffic signals to LED lights

We already observe over 50% of recognized best practices in energy management

Because of these and other previous initiatives, we scored highly in the following areas in our benchmarking results:

- ✓ In 2008, 7 out of 12 city buildings scored above average in the energy performance benchmarking process
- ✓ In 2008, our City Hall scored 64 and Southern Market Center scored 63 (on a scale of 1-100) using the EPA Energy Star Portfolio Manager tool

We anticipate that by implementing projects identified through this Energy Master Plan and adopting energy management best practices, we will continue to improve our energy performance and reduce expenditures, which will allow more of our budget to be spent where it should – improving our citizens' daily lives.

