



Challenges Facing Municipal Facilities

- Aging facilities and infrastructure
- High energy and water use
- Providing safe, efficient and sustainable facilities for workforce and the citizens
- Limited funding available for operations, maintenance and capital improvements
- Increasing deferred maintenance and capital renewal needs
- Demonstrating good stewards of sustainably, the environment and tax payer funds

Why Energy Performance Contracting?

- Energy Performance Contracting (EPC) is a turn-key solution
- Planned improvements vs emergency repairs
- Energy Services Company (ESCO) is a long-term partner to assist with future maintenance and operational concerns
- Facilitates procurement and use of sub-contractors
- Utility savings are guaranteed
- Partnership and assistance from Colorado Energy Office

Sustainability Plan

Sustainability Plan Objectives Supported:

- Implement strategies that achieve greenhouse gas emission reductions
- Enhance building energy and water efficiency
- Promote green building retrofits that use sustainable materials and enhance occupant well-being

Energy Performance Contracting City of Lakewood

- Improvements to 7 City Facilities;
 - Carmody Recreation Center
 - Green Mountain Recreation Center
 - Public Safety Center
 - Whitlock Recreation Center
 - Lakewood Civic Center Campus
 - Clements Community Center
 - Lakewood Link Recreation Center
- All facilities approx 476,000sq ft
- \$3.1M in work accomplished
- Project Highlights Include:
 - LED Lighting retrofits & controls
 - Building envelop improvements
 - Water conservation measures
 - Pool Air Circulation
 - More efficiency Pool Boilers

Energy, Water and Emission Savings

	Electricity Savings (kWh/year)	Gas Savings (Therms/year)	Water Savings (Gal/year)	GHG SAVINGS (Tons CO2/year)
HVAC IMPROVEMENTS	461,596	13,609	n/a	343
LED LIGHTING	663,816	(1,341)*	n/a	382
WATER CONSERVATION	n/a	2,457	1,338,000	13
POOL AIR CIRCULATION	(32,732)**	30,450	51,000	143
POOL BOILERS	(9,962)**	6,009	n/a	26
TOTAL SAVINGS	1,082,718	51,211	1,389,000	906

* LED lights give off less heat resulting in a slight increase in heating demand in cold months

** New equipment will use electricity instead of natural gas resulting in lower energy use & emissions

Thank You



Questions?

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