

Memorandum
City of Lawrence
City Manager's Office

To: David L. Corliss, City Manager
From: Eileen Horn, Sustainability Coordinator
CC: Cynthia Wagner
Date: January 23, 2013

Re: Annual Report on City Energy Usage and Cost

ENERGY USAGE: The City's energy usage in 2012 (compared to 2011) for all departments:

Electricity: Usage increased 7.1%
Natural Gas: Usage decreased 14.4%
Diesel Fuel: Usage decreased 1.8%
Unleaded Fuel: Usage increased 5.3%

Major driving factors include:

- **Electricity:** The unseasonably warm, dry summer of 2012 resulted in increased air conditioning loads in buildings and increased water production at Kaw Plant (using 20% more electricity than last year) and Clinton Plant (using 5% more). Kaw and Clinton are largest single consumers of kWh.
- **Natural Gas:** The warm winter of 2011-2012 decreased demand for heating fuel.
- **Diesel Fuel & Unleaded:** Highly variable in key departments (i.e. Police, Fire/Med) whose usage depends upon call volume.

ENERGY COST: Daily average cost of energy in the City increased by 8.9% for a total of \$5.2 million spent on energy commodities.

Major driving factors include:

- Increases in cost (compared to 2010 rates) for electricity, diesel, and unleaded.
- Increased electricity usage (as electricity comprises 66.7% of total city energy costs).

Monthly tracking of the City's energy use continues with our EnergyCAP software, and is reviewed quarterly by the cross-departmental Energy Management Team. By utilizing both the monthly EnergyCAP tracking and the real-time data provided by smart meters, the Energy Management Team is able to track progress on efficiency savings and identify energy usage irregularities quickly.

Progress continues on work to identify key opportunities for energy efficiency and conservation – especially in LED lighting technologies and alternative fuel vehicles.