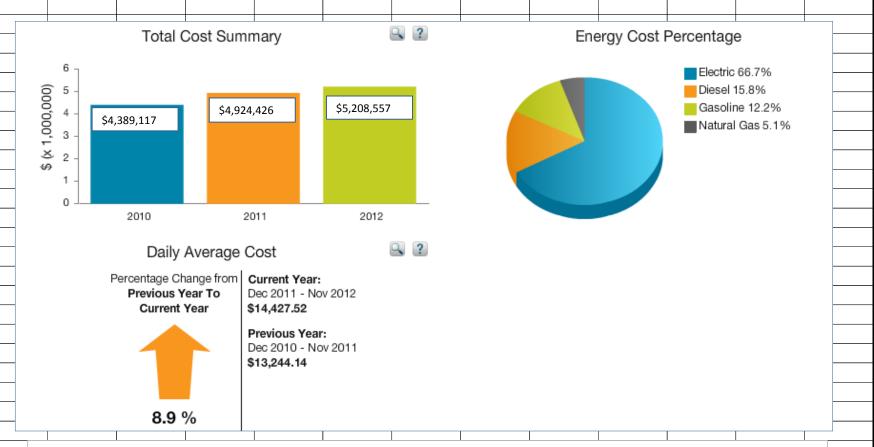
	Natural Gas Usage (Therms daily average):			Electricity Usage (KWH daily average):			Diesel Usage (GAL daily average):			Gasoline Usage (GAL daily average):			
Department:	2011	2012	% change:	2011	2012	% change:	2011	2012	% change:	2011	2012	% change:	
City-wide	1,337	1,145	-14.4%	94,429	101,106	7.1%	634	623	-1.8%	487	513	5.3%	
Fire/Med	159	117	-26.4%	4,430	4,531	2.3%	93	107	14.7%	27	29	5.6%	
Parks & Rec	408	357	-12.5%	11,299	11,688	3.4%	22	21	-4.8%	50	54	6.4%	
Police	29	19	-34.5%	1,911	2,117	10.8%	n/a	n/a	n/a	262	278	6.0%	
Public Works	283	197	-30.2%	28,220	29,341	4.0%	464	435	-6.2%	96	94	-2.6%	
Utilities	458	454	-1.0%	48,886	53,430	9.3%	54	59	8.5%	51	59	15.7%	
	Result: Reduction of natural gas usage in all departments. Driving factors: Unseasonably warm winter of 2011-2012 decreased heating demand.			Result: Significant increase in electricity usage (up in all departments). Driving factors: Heat of summer of 2012 increased air conditioning loads. Drought increased water production at Kaw (using 20% more electricity than last year)and Clinton (using 5% more). Kaw and Clinton are largest single consumers of kWh.			Slight usage in Fire reduct Consid Fire/M highly upon of Public consul theref	Result: Slight reduction in diesel usage city-wide. Increases in Fire/Med offset by reductions in Public Works. Considerations: Fire/Med diesel usage is highly variable and based upon call volume. Public Works is largest consumer of diesel fuel, therefore conservation efforts could be leveraged.			Result: Increase in unleaded gasoline consumption citywide. Considerations: Fuel usage in departments such as Fire/Med and Police are highly variable depending upon call volume.		





Major factors driving energy cost increases

3 of 4 commodities experienced price increases.

Average cost of electricity increased from 8.6 cents/kWh (2010) to 9.5 cents/kWh (2012)

Average cost of unleaded gasoline increased from \$2.58/gallon (2010) to \$3.44/gallon (2012)

Average cost of diesel fuel increased from from \$2.71/gallon (2010) to \$3.68/gallon (2012)

Natural gas cost <u>decreased</u> from \$0.76/therm to \$0.66/therm, but only makes up 5.1% of the City's total energy costs.

Energy efficiency projects completed in 2012:

All traffic signals (81 intersections) changed to LEDs.

The annual estimated cost savings for the LED traffic signals is \$137,599.70

LED sidewalk lights (downtown, 12th street lighted walkway, 800 Delaware, 12th and Indiana)

Downtown lights saved 114,314 kWh in 2012 compared to 2010.

Downtown lights saved \$6,694.00 in 2012 compared to 2010.

LED lighting retrofits (Arts Center, Community Health Building, Commission Meeting Room).

Arts center projected savings:

Annual kWh = 44,891 kWh

Annual Cost Savings = \$3,770.87

Community Health Building projected savings:

Annual kWh = 10,750 kWh

Annual Cost Savings = \$892.00

HVAC upgrades – FM#2, Library.

Library actual savings: electricity use down 21.6%

Energy audits of City Hall and Lawrence Arts Center.

Resulted in a prioritized list of projects for both buildings, based upon ROI.

