

Energy Benchmarking Report For Nevada State Buildings

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Introduction

The federal government authorized the State Energy Program American Recovery & Reinvestment Act (SEP ARRA) grant to the Nevada State Office of Energy (NSOE) with a project start date of April 29, 2009. The NSOE collaborated with the State Public Works Division (SPWD) to request nominated buildings from all departments in State government. Upon receiving these nominations, the SPWD followed-up with each department and added three buildings from each responding department to a nominated buildings list. With knowledge of the state-owned buildings through the SPWD Facility Condition Analysis (FCA) reports and the SPWD generated Senate Bill 152 Energy Retrofit Payback Report, other buildings were added to the nominated buildings list.

The SPWD developed projects based on the need of the NSOE to keep within budget and the federal desire for an overall program minimum limit (i.e. 10 million source BTU's saved per \$1,000 spent). The SPWD investigated lighting projects with favorable paybacks but also considered mechanical projects with either a reasonable payback period or state-mandated top priority. Furthermore, the SPWD and the NSOE had previously collaborated to submit Solar Photovoltaic (PV) rebate applications to the power company, which resulted in approximately \$900,000 in rebates and the solar PV projects also being included in the program. Surebet rebates of approximately \$150,000 were also applied for and received from NV Energy.

In an Initial Feasibility Study delivered in February 2010, the SPWD provided the NSOE with estimates for 112 lighting projects, 8 mechanical projects, and 4 Solar Photovoltaic projects. In response, the NSOE authorized the SPWD to proceed with these projects with \$7M from federal ARRA funds designated for State buildings under the SEP. The SPWD investigated the requirements attached to the American Recovery and Reinvestment Act (ARRA) funding and developed specialized bid documents, and material procurement methods in order to assure that the funding was spent appropriately.

After this initial investigation and the special SEP ARRA contract development period, projects were designed, bid, and constructed. Over time, the SPWD expanded the PV, mechanical, and lighting programs to additional buildings across the state, and completed two re-commissioning projects as well.

The following summary table includes State buildings within the Initial Feasibility Study as well as those covered by the expansion of the scope within available funding. The initial feasibility study included Solar PV calculations from the consultant and mechanical and lighting energy savings projections from the SPWD. The figures for Mechanical and Solar PV reflect actual project costs (not estimates). Rebates received by the NSOE have not been included in the table. All values are provided by the State.

Estimated Project Costs and Savings by Energy Efficiency Project Type				
Project Type	Est. Project Cost	Est. Annual Savings (kWh)	Est. Annual Savings (Source Btu)	Est. Annual Savings (\$)
Lighting	\$4,593,049	5,962,220	67,945,931,361	\$742,175
Mechanical	\$1,471,539	225,867	2,574,000,000	\$67,200
Solar PV	\$1,465,879	242,433	2,762,781,670	\$27,718
Total	\$7,530,466	6,430,519	73,282,713,031	\$837,093

About the Energy Benchmarking Study

CLEAResult is under contract to the State of Nevada to benchmark the energy performance of the state buildings implementing energy-related improvements with SEP ARRA funds. The SPWD provided nominated buildings from the initial feasibility study and the expansion of scope within available funding, which CLEAResult combined into a single master list of buildings to be benchmarked.

The SPWD provided CLEAResult with an inventory of state building information such as year built, square footage, building type, estimated project cost, and estimated project energy and cost savings.

For each state building, CLEAResult attempted to collect utility data (both electricity & natural gas) from January 2004 through February 2012. NV Energy (NVE) and Southwest Gas (SWG) are the primary electric & gas utilities across the state, but municipal utilities also provide service to a handful of buildings. With the help of these utility companies, CLEAResult managed to procure the vast majority of the utility data. However, it was not possible to obtain utility data in all instances. CLEAResult did not receive electric data for Pioche Conservation Camp, which is served by a municipal utility. Additionally, other buildings served by municipal utilities often only have limited energy data available, usually no more than a few years back. Furthermore, with the exception of a handful of buildings, SWG usage for 2012 and monthly cost history from 2004-2012 are estimated based on trends. Finally, several buildings are lacking NVE usage for 2004. Missing data are denoted in the report as 'N/A'.

The state buildings are spread across several locations (# buildings in parenthesis):

- Boulder City (2)
- Caliente (15)
- Carson City (40)
- Fallon (1)
- Floyd Lamb (3)
- Henderson (6)
- Las Vegas (27)
- Mason Valley (13)
- Minden (3)
- Overton (3)
- Pioche (1)
- Reno (13)
- Sparks (27)
- Stead (2)
- Stewart (9)
- Washoe Lake (1)
- Washoe Valley (4)
- Winnemucca (2)

Many state departments are also represented in the study (# buildings in parenthesis):

- Administration (28)
- Agriculture (2)
- Attorney General (5)
- Conservation and Natural Resources (16)
- Cultural Affairs (13)
- Education (2)
- Employment, Training, and Rehab (3)
- Health and Human Services (49)
- Military (17)
- Motor Vehicles (12)
- Nevada System of Higher Education (3)
- Public Safety (2)
- Supreme Court (2)
- Veteran's Services (1)
- Wildlife (17)

For purposes of this energy benchmarking study, these 172 state buildings were consolidated into 71 sites which are metered separately and suitable for further analysis. The total square footage of some sites also reflects other state buildings that did not undergo upgrades, but are fed by the same utility meter. The individual building energy benchmarking reports list the SPWD building identification numbers of all buildings included in the site under the 'project notes' section.

The Purpose of Benchmarking

Benchmarking the energy performance of its buildings over time will help the State of Nevada identify whether or not its buildings are improving, how much energy has been saved, and where to focus future energy efficiency efforts. This *Energy Benchmarking Report* compares the energy performance of state buildings against regional and national databases, and it also shows how the energy performance of each individual building has changed since 2004. This comparison will help the state determine how much of an impact the spent SEP ARRA funds are having on the reduction of energy usage across all buildings.

The Benchmarking Process

The energy and building data collected – e.g. monthly utility bills, building square footages – are entered into two separate energy performance rating systems.

CLEAResult's Regional Energy Performance Databases and Data Modeling Process

These databases contain building characteristics and energy usage information from hundreds of buildings that CLEAResult has benchmarked *in similar climate regions*. These buildings provide a good basis for comparison of energy performance, as they experience similar outdoor temperature and humidity levels as buildings located throughout the various climates of Nevada.

After uploading the information from the state buildings into the database, a software model calculates the following energy benchmarks for each building: annual energy use per square foot (Energy Use Index), annual energy cost per square foot (Energy Cost Index), and Annual Greenhouse Gas Emissions¹. The model then compares these calculated energy benchmarks to other peer buildings in similar climate regions. The model only compares those buildings of similar type (e.g. offices are only compared to other offices, etc.).

The U.S. Environmental Protection Agency's (EPA) ENERGY STAR® Portfolio Manager Tool

Portfolio Manager is an online benchmarking tool that uses a mathematical algorithm to rank energy performance on a scale of 1 to 100. The algorithm was created based on actual building and utility data from thousands of buildings surveyed nationwide in the Department of Energy's (DOE) Commercial Building Energy Consumption Survey (CBECS).

Portfolio Manager incorporates both energy consumption data and building characteristics – such as square footage, and location (for weather adjustments) – into its calculations. Once this information is uploaded, Portfolio Manager assigns an energy performance rating to the building. A score of 50 indicates that the building is performing better than half of buildings nationwide. Buildings scoring 75 or better may be eligible to apply for the ENERGY STAR® Label. Eligible building types located throughout the State of Nevada include courthouses, offices, and warehouses.

The following page describes the energy benchmarks used in this report in further detail and also explains the individual benchmarking summary charts provided for each building.

¹ Greenhouse gas emissions were calculated in accordance with the *Local Government Operations Protocol for the quantification and reporting of greenhouse gas emissions inventories*. http://www.theclimateregistry.org/downloads/2009/05/LGO_Protocol.pdf

Energy Performance Benchmarking Analysis²

The chart on page 10 displays the weighted-average energy performance of all state buildings funded with ARRA projects. Individual charts for each site follow in alphabetical order by department. Each chart is broken down into the following sections:

Monthly / Annual Energy Usage Graphs

The top portion of the chart illustrates the utility data in two graphical formats. The bar graph shows the monthly energy use per square foot (see left vertical axis). The bars are colored red and blue to show the portions attributable to electricity and natural gas, respectively. The black trendline shows the annual energy use per square foot (see right vertical axis) over time.

The graphical format provides a quick visual representation of energy performance over time by displaying energy usage per square foot from January 2004-February 2012. If the black trendline moves downward over time, the site is using less energy per square foot and is performing better. Notice how fluctuations in monthly energy consumption (i.e., red/blue bars) affect annual energy use (i.e., black trendline).

Be aware that there are perfectly legitimate reasons for fluctuations in energy usage that cannot be controlled for in a simple benchmarking analysis. For example, if a couple floors of an office building are vacated, one would expect energy usage to fall subsequently. However, this obviously doesn't reflect better energy management at the facility. For this reason, it is important to use this energy benchmarking analysis as a tool in conjunction with firsthand knowledge of facility operations.

The following chart shows that state buildings with ARRA projects have together reduced their energy usage per square foot steadily since 2005 – the first year where a majority of energy data was available. Although there are many factors to consider, this downward movement is a positive indicator.

Energy Benchmarks

The first table of the chart shows how the calculated energy performance benchmarks described below have changed from 2004-2012 and how they compare to the climate average for their respective building type:

Energy Use Index (EUI) – Also known as site energy, Energy Use Index is one of the most common ways to compare energy consumption between buildings. This metric includes twelve months of utility consumption data in units of kBtu, divided by the total site square footage. Since energy cost is subject to price fluctuations, EUI is a better metric to use when analyzing energy performance.

Energy Cost Index (ECI) – Potential to reduce energy costs is a prime motivator for investment in energy efficiency upgrades. This metric includes twelve months of utility costs divided by the total site square footage. ECI is a simple way to compare how much it costs to operate each site.

Greenhouse Gases (GHG) – An excellent way to measure the carbon footprint of each site is by greenhouse gas emissions. This metric includes twelve months of GHGs (measured in tons CO₂). GHGs are particularly sensitive to factors such as the amount of electric usage and location of the facility.

² This report compares energy use based on utility bills and is not an engineering assessment. The analysis is purely mathematical and is not meant to provide a subjective assessment of how facilities are operated. Most of the indicators do not adjust for fluctuations in weather and/or building conditions, and therefore should be used only as a tool in combination with knowledge of facility operations.

Energy Benchmarks (Cont'd)

Portfolio Manager Rating³ – An online benchmarking tool that uses a mathematical algorithm to rank energy performance on a scale of 1 to 100, Portfolio Manager incorporates *both* energy consumption data and building characteristics – such as number of computers, square footage, and location (for weather adjustments) – into its calculations. Offices and warehouses greater than 5,000 square feet are the state building types eligible to receive scores in EPA Portfolio Manager.

The first column is the climate average for each energy performance metric, which is calculated from the DOE's CBECS by filtering on similar building types that experience similar heating/cooling degree days. The following columns show the annual energy benchmarks at the end of each calendar year, where the 2011 or current benchmark is for the 12 months ending in February 2012. Finally, the percentages to the right of the energy metrics show how the site has changed since 2004 and how it now compares to the median. Consuming/spending less on energy (i.e., <100%) and scoring higher in EPA Portfolio Manager (i.e., >100%) over time and versus climate averages are all positive indicators. Sites using more than their climate averages or those with spikes in their energy usage should be investigated further.

The following chart shows that state buildings with ARRA projects have collectively reduced their annual energy benchmarks and increased their EPA Portfolio Manager scores over time. Furthermore, in the last couple years these buildings have performed on-par or better than their climate averages.

Project Notes and Savings

The middle table provides information about the nature of on-site energy-improvement projects and their associated energy savings. The 'Project Notes' section provides a brief description of the work done, points out anomalies in the billing data, and lists SPWD building identification numbers included in the site square footage. The 'Project Savings' section estimates energy savings, project cost, and payback for each site.

Building Characteristics / Change in GHG Emissions & Electricity

The left portion of the bottom table of the chart summarizes a few basic building characteristics (i.e., type of building, year built, square footage) and also lists the electric utility account numbers for each site.

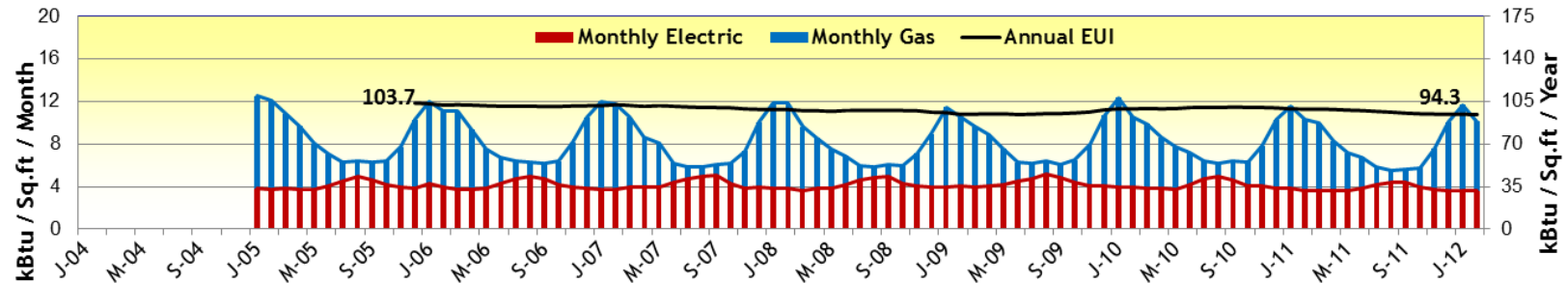
The right portion shows changes in electricity use, cost, and greenhouse gases since project completion. The electricity and greenhouse gas savings are calculated by subtracting the sum of any months that have elapsed since project completion from the sum of those same months' averages since 2004. For example, consider a building with a project completion date of June 2011. At the time of the study, eight months had elapsed since project completion (July 2011, Aug 2011, Sept 2011, Oct 2011, Nov 2011, Dec 2011, Jan 2012, Feb 2012). Let us assume that the sum of electric usage over these most recent eight months is 1,000,000 kWh. Let us look at the same set of eight months (July, Aug, Sept, Oct, Nov, Dec, Jan, Feb) and find each month's average electric usage from 2004-2012. Assume that the sum of these eight monthly averages is 1,200,000 kWh. Therefore, in this example, the electricity savings is 200,000 kWh. GHG savings are calculated similarly.

The following chart shows that state buildings with ARRA projects have collectively reduced their electric usage and greenhouse gases since project completion. With many projects just completed recently, the State should expect their electric & GHG savings to increase over time.

³ The EPA Portfolio Manager scores in this report are unofficial and to be used for reference only. To apply for the ENERGY STAR® Label, the State must provide additional building information (e.g. occupants, computers, etc.) and verify that the energy data is both accurate and up-to-date. The State must also hire a Professional Engineer to verify the application, perform on-site air quality tests, and stamp their approval.

Energy Performance Benchmarking Analysis

All State Buildings with ARRA-Funded Energy Projects



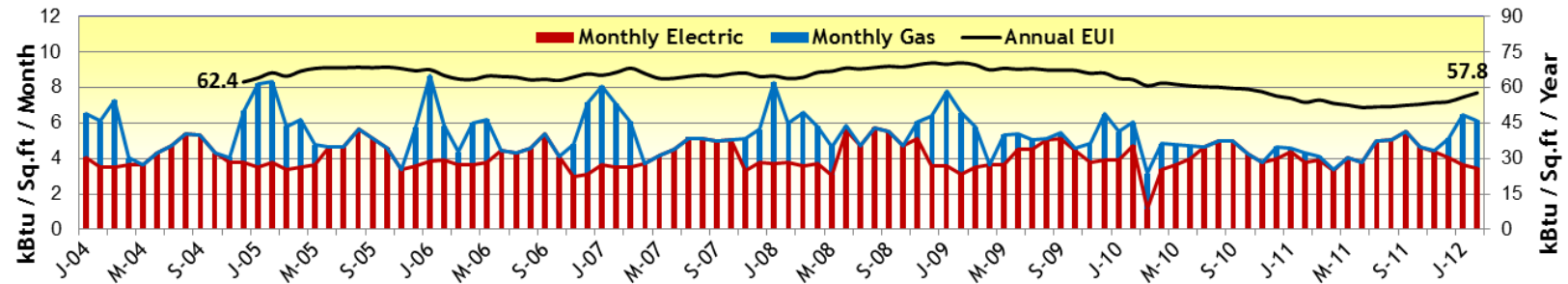
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBtu / sq.ft / yr)	91.2	N/A	103.7	101.6	98.6	96.3	98.1	99.8	94.3	91%	103%
Energy Cost (\$ / sq.ft / yr)	\$1.84	N/A	\$1.98	\$2.18	\$2.17	\$2.12	\$2.24	\$2.04	\$1.69	85%	92%
GHG Emissions (Tons CO ₂ / yr)	30,472	N/A	26,537	27,641	27,221	26,432	29,065	28,836	26,870	101%	88%
EPA Portfolio Manager Score	50	N/A	48	50	49	49	47	48	52	109%	104%

Project Notes	Project Savings Analysis			
* Project savings includes all lighting, HVAC, Solar PV, and RCx projects. Energy data reflects all buildings with ARRA-funded projects.	Est. Annual Savings (kWh)	6,430,519	Est. Project Cost (\$)	\$7,530,466
	Est. Annual Savings (\$)	\$837,093	Est. Simple Payback (Yrs)	9.0

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	All Building Types	Project Completion Date	Jul-11	Electricity (KWh)-Before	25,938,903
Year Built	N/A	Months Since Completion	6.7	Electricity (KWh)-After	22,619,604
Floor Area (sq. ft.)	3,474,190	GHGs (Tons CO ₂)-Before	15,726	Percent of Original	87%
Customer Number(s)	N/A	GHGs (Tons CO ₂)-After	13,909	Electricity (KWh)-Change	3,319,299
Premise Number(s)	N/A	Percent of Original	88%	Blended Rate of Electricity	\$0.09
Meter Number(s)	N/A	GHGs (Tons CO ₂)-Change	1,816	Electricity (\$)-Change	\$304,344

Energy Performance Benchmarking Analysis

Admin, B&G, BusInd, Bradley Building / Maintenance, Las Vegas



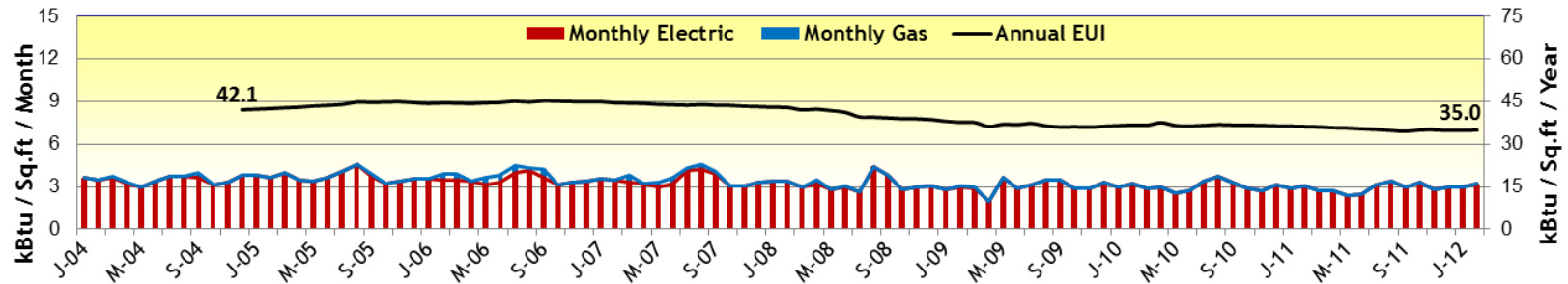
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	55.3	62.4	67.1	65.8	64.7	70.4	66.1	56.4	57.8	93%	104%
Energy Cost (\$ / sq.ft / yr)	\$1.76	\$1.50	\$1.54	\$1.61	\$1.69	\$1.77	\$1.67	\$1.49	\$1.43	95%	81%
GHG Emissions (Tons CO ₂ / yr)	323	344	351	342	351	373	347	321	338	98%	105%
EPA Portfolio Manager Score	50	69	65	69	68	62	68	73	69	100%	138%

Project Notes	Project Savings Analysis			
Relamped with super T8's at building #'s 0266, 0705. Recommissioned building # 0266.	Est. Annual Savings (kWh)	91,631	Est. Project Cost (\$)	\$62,177
	Est. Annual Savings (\$)	\$10,188	Est. Simple Payback (Yrs)	6.1

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Dec-11	Electricity (KWh)-Before	85,106
Year Built	1975	Months Since Completion	2	Electricity (KWh)-After	79,800
Floor Area (sq. ft.)	38,152	GHGs (Tons CO ₂)-Before	60.5	Percent of Original	94%
Customer Number(s)	1028318	GHGs (Tons CO ₂)-After	56.7	Electricity (KWh)-Change	5,306
Premise Number(s)	1078929	Percent of Original	94%	Blended Rate of Electricity	\$0.09
Meter Number(s)	PSD41D000029	GHGs (Tons CO ₂)-Change	4	Electricity (\$)-Change	\$479

Energy Performance Benchmarking Analysis

Admin, B&G, Carson City Motor Pool, Carson City



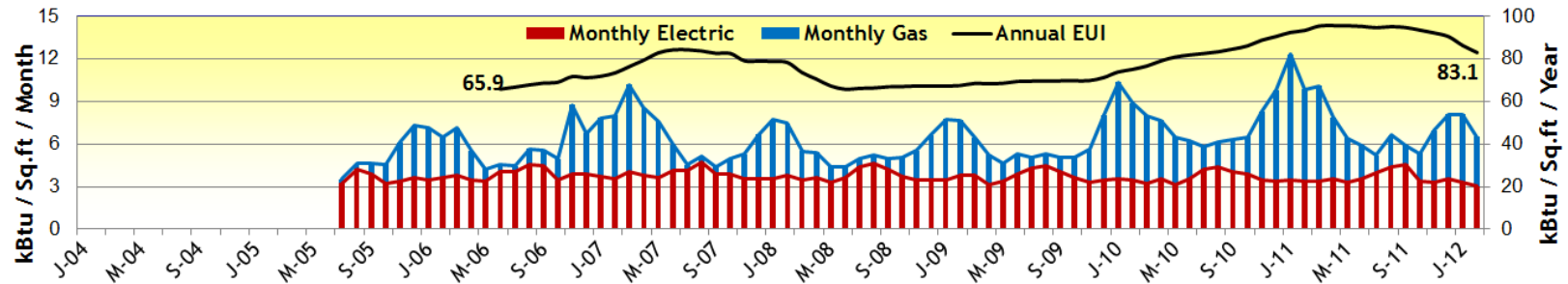
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBTu / sq.ft / yr)	45.0	42.1	44.6	44.9	43.2	38.6	36.3	36.4	35.0	83%	78%
Energy Cost (\$ / sq.ft / yr)	\$0.92	\$1.42	\$1.63	\$1.69	\$1.65	\$1.51	\$1.43	\$1.26	\$1.09	77%	118%
GHG Emissions (Tons CO ₂ / yr)	20	19	20	20	19	18	17	17	16	84%	81%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0204.	Est. Annual Savings (kWh)	4,244	Est. Project Cost (\$)	\$12,000
	Est. Annual Savings (\$)	\$552	Est. Simple Payback (Yrs)	21.7

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Vehicle Storage/Maint.	Project Completion Date	Apr-11	Electricity (KWh)-Before	39,241
Year Built	1988	Months Since Completion	10	Electricity (KWh)-After	34,510
Floor Area (sq. ft.)	3,987	GHGs (Tons CO ₂)-Before	15.5	Percent of Original	88%
Customer Number(s)	153576	GHGs (Tons CO ₂)-After	13.5	Electricity (KWh)-Change	4,731
Premise Number(s)	266315	Percent of Original	87%	Blended Rate of Electricity	\$0.11
Meter Number(s)	159921	GHGs (Tons CO ₂)-Change	2	Electricity (\$)-Change	\$501

Energy Performance Benchmarking Analysis

Admin, B&G, Multiple, Richard H. Bryan Building, Carson City



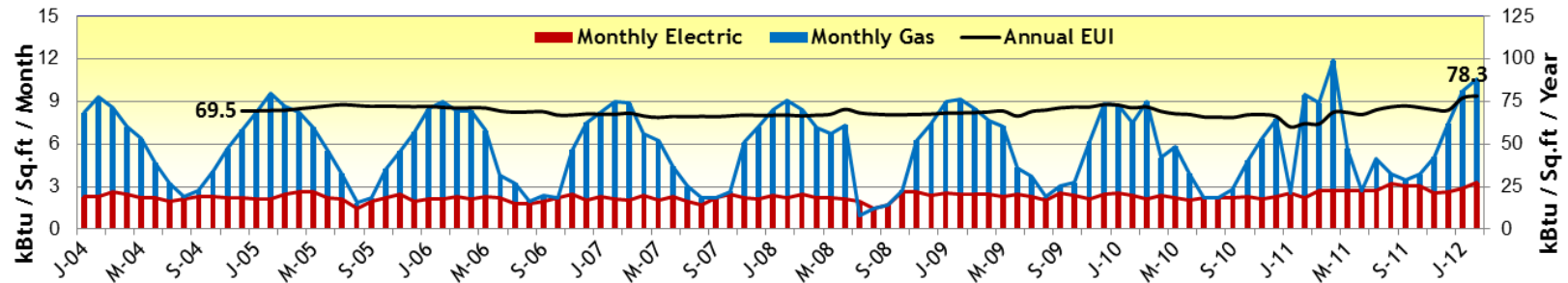
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2006	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	N/A	N/A	71.2	79.1	67.3	71.3	90.6	83.1	117%	110%
Energy Cost (\$ / sq.ft / yr)	\$1.43	N/A	N/A	\$1.87	\$2.01	\$1.92	\$1.98	\$1.89	\$1.56	83%	109%
GHG Emissions (Tons CO ₂ / yr)	1,073	N/A	N/A	798	855	768	790	906	854	107%	80%
EPA Portfolio Manager Score	50	N/A	N/A	79	76	81	80	73	76	96%	152%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 2450. Upgraded T8's and added occupancy sensors.	Est. Annual Savings (kWh)	112,888	Est. Project Cost (\$)	\$77,640
	Est. Annual Savings (\$)	\$14,671	Est. Simple Payback (Yrs)	5.3

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Jun-11	Electricity (KWh)-Before	1,079,221
Year Built	2005	Months Since Completion	8	Electricity (KWh)-After	1,042,932
Floor Area (sq. ft.)	120,553	GHGs (Tons CO ₂)-Before	459.9	Percent of Original	97%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	557.3	Electricity (KWh)-Change	36,289
Premise Number(s)	483668	Percent of Original	121%	Blended Rate of Electricity	\$0.10
Meter Number(s)	C1483668/CI483668	GHGs (Tons CO ₂)-Change	-97	Electricity (\$)-Change	\$3,522

Energy Performance Benchmarking Analysis

Admin, B&G, Purch, Reno Purchasing Warehouse, Reno



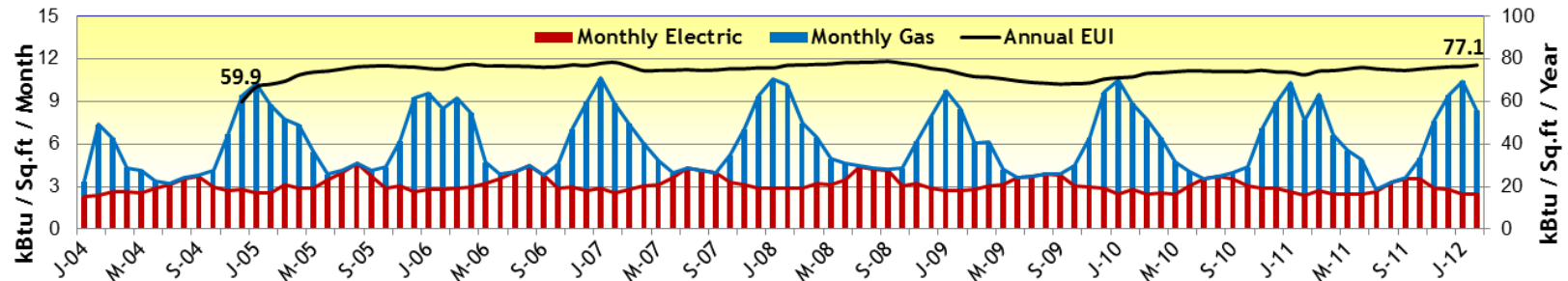
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBTu / sq.ft / yr)	38.1	69.5	72.0	67.7	66.8	67.6	73.2	66.3	78.3	113%	206%
Energy Cost (\$ / sq.ft / yr)	\$0.75	\$1.14	\$1.25	\$1.40	\$1.40	\$1.40	\$1.56	\$1.27	\$1.29	113%	171%
GHG Emissions (Tons CO ₂ / yr)	266	322	327	310	309	314	339	312	377	117%	142%
EPA Portfolio Manager Score	50	39	37	42	42	41	35	38	25	64%	50%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0399. Replaced T-12's and added occupancy sensors.	Est. Annual Savings (kWh)	102,594	Est. Project Cost (\$)	\$96,000
	Est. Annual Savings (\$)	\$13,333	Est. Simple Payback (Yrs)	7.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Warehouse	Project Completion Date	Jul-11	Electricity (KWh)-Before	271,787
Year Built	1960	Months Since Completion	7	Electricity (KWh)-After	363,816
Floor Area (sq. ft.)	60,000	GHGs (Tons CO ₂)-Before	178.8	Percent of Original	134%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	217.4	Electricity (KWh)-Change	-92,029
Premise Number(s)	258849	Percent of Original	122%	Blended Rate of Electricity	\$0.09
Meter Number(s)	170435	GHGs (Tons CO ₂)-Change	-39	Electricity (\$)-Change	-\$8,740

Energy Performance Benchmarking Analysis

Admin, B&G, Tourism, Paul Laxalt State Building, Carson City



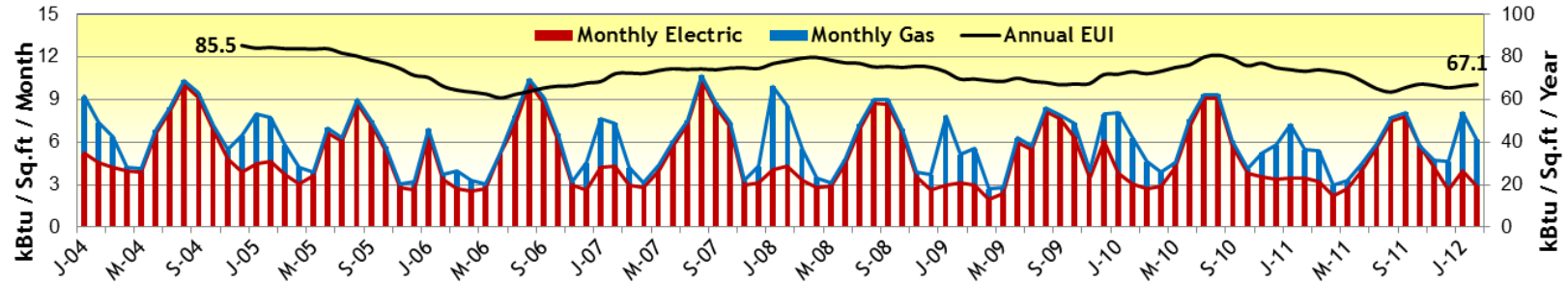
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	59.9	76.2	76.9	75.9	75.6	70.5	74.0	77.1	129%	103%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$1.39	\$1.69	\$1.83	\$1.84	\$1.94	\$1.88	\$1.64	\$1.43	103%	101%
GHG Emissions (Tons CO ₂ / yr)	232	138	168	170	169	170	160	160	162	117%	70%
EPA Portfolio Manager Score	50	80	69	69	68	68	72	73	73	91%	146%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0394. Relamped T8's, replaced T12's with high-output T8's, and added occupancy sensors.	Est. Annual Savings (kWh)	20,048	Est. Project Cost (\$)	\$15,633
	Est. Annual Savings (\$)	\$2,606	Est. Simple Payback (Yrs)	6.0

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	246,486
Year Built	1891	Months Since Completion	10	Electricity (KWh)-After	219,400
Floor Area (sq. ft.)	26,110	GHGs (Tons CO ₂)-Before	133.5	Percent of Original	89%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	130.9	Electricity (KWh)-Change	27,086
Premise Number(s)	295575	Percent of Original	98%	Blended Rate of Electricity	\$0.10
Meter Number(s)	193383	GHGs (Tons CO ₂)-Change	3	Electricity (\$)-Change	\$2,691

Energy Performance Benchmarking Analysis

Admin, B&G, B & G Maintenance Building / DoIT-Garage, Las Vegas



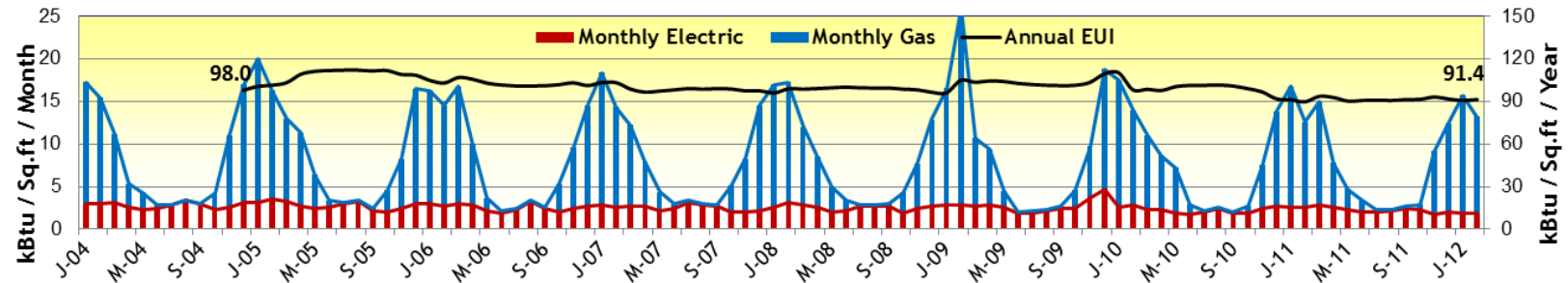
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBTu / sq.ft / yr)	86.9	85.5	71.4	67.8	74.7	75.2	71.7	75.0	67.1	79%	77%
Energy Cost (\$ / sq.ft / yr)	\$1.73	\$2.22	\$1.84	\$1.96	\$2.15	\$2.03	\$2.01	\$2.00	\$1.71	77%	99%
GHG Emissions (Tons CO ₂ / yr)	75	100	83	83	88	84	81	84	75	75%	100%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0718. Replaced T12's with high-output T8's and added occupancy sensors.	Est. Annual Savings (kWh)	12,991	Est. Project Cost (\$)	\$14,182
	Est. Annual Savings (\$)	\$1,688	Est. Simple Payback (Yrs)	8.4

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Maintenance Shop	Project Completion Date	Apr-11	Electricity (KWh)-Before	126,757
Year Built	1987	Months Since Completion	10	Electricity (KWh)-After	108,440
Floor Area (sq. ft.)	7,879	GHGs (Tons CO ₂)-Before	76.8	Percent of Original	86%
Customer Number(s)	1028318	GHGs (Tons CO ₂)-After	66.9	Electricity (KWh)-Change	18,317
Premise Number(s)	1372137	Percent of Original	87%	Blended Rate of Electricity	\$0.10
Meter Number(s)	PTD418000193	GHGs (Tons CO ₂)-Change	10	Electricity (\$)-Change	\$1,866

Energy Performance Benchmarking Analysis

Admin, B&G, B & G Paint Shop, Carson City



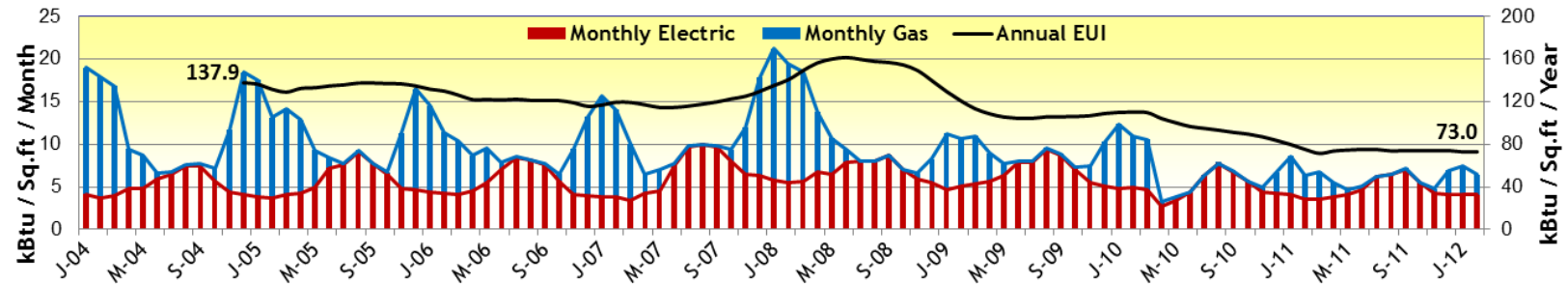
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	55.0	98.0	108.6	101.3	97.5	96.6	109.5	92.0	91.4	93%	166%
Energy Cost (\$ / sq.ft / yr)	\$0.99	\$1.88	\$2.08	\$2.01	\$1.97	\$2.01	\$2.23	\$1.73	\$1.47	78%	148%
GHG Emissions (Tons CO ₂ / yr)	25	36	39	36	35	35	39	33	32	89%	130%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0239. *Project only partially completed, B&G may complete with their own money.	Est. Annual Savings (kWh)	10,003	Est. Project Cost (\$)	\$9,360
	Est. Annual Savings (\$)	\$1,300	Est. Simple Payback (Yrs)	7.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Maintenance Shop	Project Completion Date	Aug-10	Electricity (KWh)-Before	69,744
Year Built	1948	Months Since Completion	18	Electricity (KWh)-After	58,825
Floor Area (sq. ft.)	5,000	GHGs (Tons CO ₂)-Before	59.3	Percent of Original	84%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	51.4	Electricity (KWh)-Change	10,920
Premise Number(s)	288870	Percent of Original	87%	Blended Rate of Electricity	\$0.11
Meter Number(s)	167689	GHGs (Tons CO ₂)-Change	8	Electricity (\$)-Change	\$1,155

Energy Performance Benchmarking Analysis

Admin, B&G, Belrose Office Building, Las Vegas



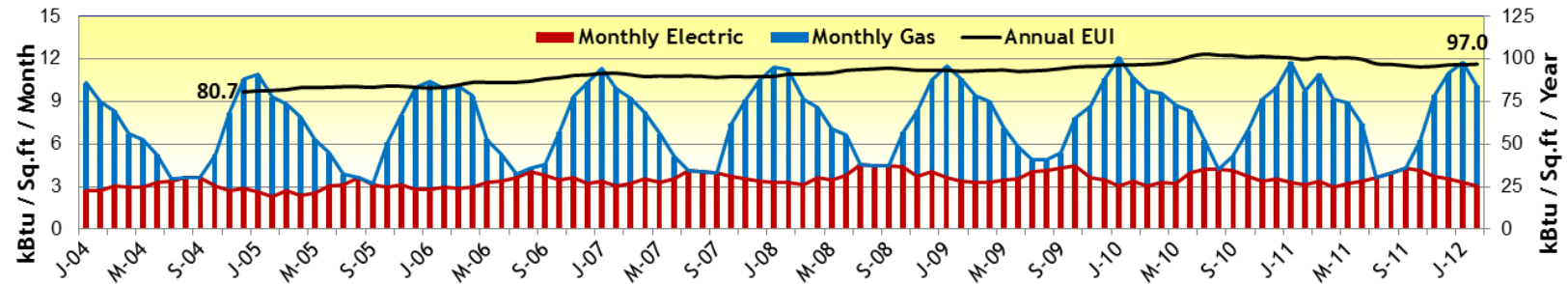
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	55.3	137.9	134.9	115.8	129.9	139.7	109.0	83.7	73.0	53%	132%
Energy Cost (\$ / sq.ft / yr)	\$1.76	\$2.52	\$2.57	\$2.48	\$2.85	\$3.00	\$2.73	\$2.10	\$1.79	71%	102%
GHG Emissions (Tons CO ₂ / yr)	348	596	616	570	646	685	608	464	431	72%	124%
EPA Portfolio Manager Score	50	32	27	35	26	20	30	54	60	188%	120%

Project Notes	Project Savings Analysis			
Upgraded lighting and recommissioned building # 0286. Relamped with super T8's.	Est. Annual Savings (kWh)	71,841	Est. Project Cost (\$)	\$73,936
	Est. Annual Savings (\$)	\$8,380	Est. Simple Payback (Yrs)	8.8

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	741,672
Year Built	1973	Months Since Completion	10	Electricity (KWh)-After	606,800
Floor Area (sq. ft.)	41,075	GHGs (Tons CO ₂)-Before	501.8	Percent of Original	82%
Customer Number(s)	1028318	GHGs (Tons CO ₂)-After	368.8	Electricity (KWh)-Change	134,872
Premise Number(s)	1100366	Percent of Original	74%	Blended Rate of Electricity	\$0.10
Meter Number(s)	CI195	GHGs (Tons CO ₂)-Change	133	Electricity (\$)-Change	\$13,313

Energy Performance Benchmarking Analysis

Admin, B&G, Blasdel Office Building, Carson City



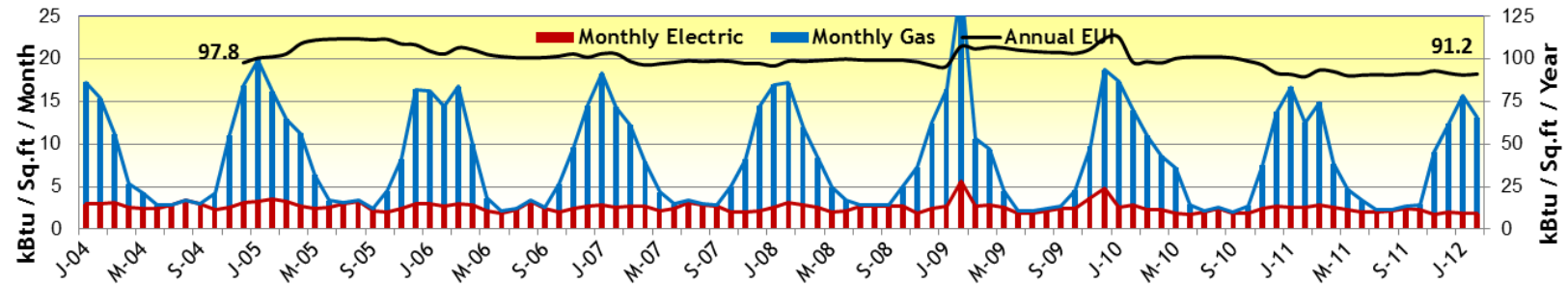
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft. / yr)	75.2	80.7	83.4	90.7	89.7	93.4	95.8	101.1	97.0	120%	129%
Energy Cost (\$ / sq.ft. / yr)	\$1.43	\$1.54	\$1.66	\$1.94	\$1.98	\$2.11	\$2.18	\$1.99	\$1.69	109%	118%
GHG Emissions (Tons CO ₂ / yr)	371	274	274	304	309	326	327	335	325	119%	88%
EPA Portfolio Manager Score	50	73	75	67	65	60	60	58	60	82%	120%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0200. Relamped T8 fixtures with 25W lamps and added occupancy sensors.	Est. Annual Savings (kWh)	41,612	Est. Project Cost (\$)	\$45,014
	Est. Annual Savings (\$)	\$5,408	Est. Simple Payback (Yrs)	8.3

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	428,178
Year Built	1956	Months Since Completion	10	Electricity (KWh)-After	444,156
Floor Area (sq. ft.)	41,680	GHGs (Tons CO ₂)-Before	251.8	Percent of Original	104%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	263.8	Electricity (KWh)-Change	-15,978
Premise Number(s)	295574	Percent of Original	105%	Blended Rate of Electricity	\$0.09
Meter Number(s)	67474; 99435	GHGs (Tons CO ₂)-Change	-12	Electricity (\$)-Change	-\$1,489

Energy Performance Benchmarking Analysis

Admin, B&G, Buildings & Grounds Garage, Carson City



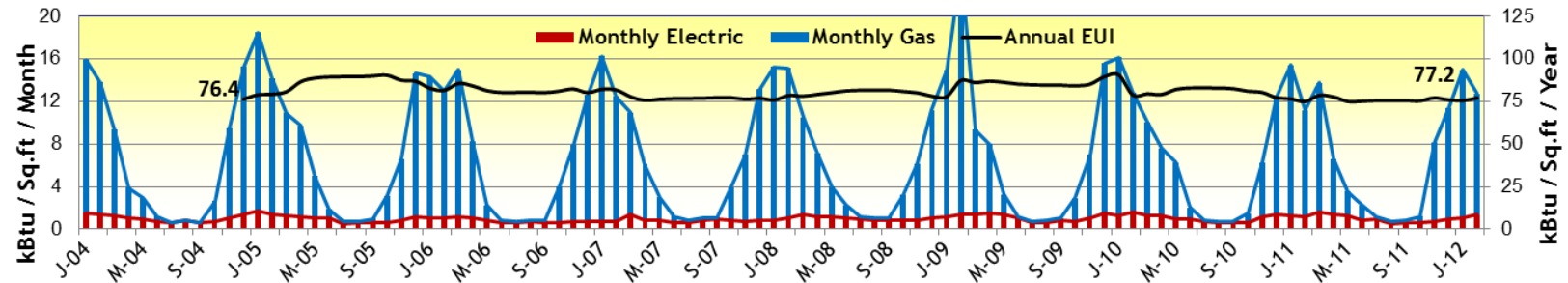
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	55.0	97.8	108.4	101.1	97.3	96.3	112.1	91.7	91.2	93%	166%
Energy Cost (\$ / sq.ft / yr)	\$0.99	\$1.88	\$2.08	\$2.01	\$1.96	\$2.00	\$2.34	\$1.73	\$1.46	78%	148%
GHG Emissions (Tons CO ₂ / yr)	12	17	19	17	17	17	20	16	15	89%	130%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 2312. Replaced T12's with high-output T8's and added occupancy sensors.	Est. Annual Savings (kWh)	4,224	Est. Project Cost (\$)	\$5,160
	Est. Annual Savings (\$)	\$549	Est. Simple Payback (Yrs)	9.4

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Maintenance Shop	Project Completion Date	Dec-10	Electricity (KWh)-Before	26,643
Year Built	1990	Months Since Completion	14	Electricity (KWh)-After	21,995
Floor Area (sq. ft.)	2,400	GHGs (Tons CO ₂)-Before	22.9	Percent of Original	83%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	20.0	Electricity (KWh)-Change	4,648
Premise Number(s)	288870	Percent of Original	87%	Blended Rate of Electricity	\$0.10
Meter Number(s)	167689	GHGs (Tons CO ₂)-Change	3	Electricity (\$)-Change	\$486

Energy Performance Benchmarking Analysis

Admin, B&G, Buildings & Grounds Office, Carson City



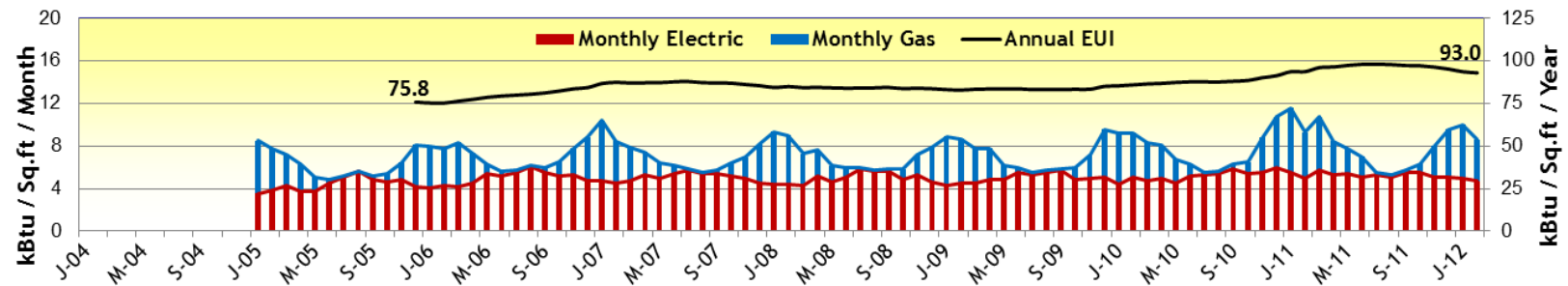
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	76.4	87.0	80.3	77.0	78.2	89.6	77.3	77.2	101%	103%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$1.15	\$1.30	\$1.20	\$1.18	\$1.31	\$1.48	\$1.26	\$1.05	92%	74%
GHG Emissions (Tons CO ₂ / yr)	69	37	42	38	37	38	43	38	38	100%	54%
EPA Portfolio Manager Score	50	84	79	85	87	84	77	83	84	100%	168%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0391. Replaced T12's with high-output T8's, relamped T8's, and added occupancy sensors.	Est. Annual Savings (kWh)	12,861	Est. Project Cost (\$)	\$14,040
	Est. Annual Savings (\$)	\$1,671	Est. Simple Payback (Yrs)	8.4

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Dec-10	Electricity (KWh)-Before	31,862
Year Built	1900	Months Since Completion	14	Electricity (KWh)-After	32,410
Floor Area (sq. ft.)	7,800	GHGs (Tons CO ₂)-Before	53.1	Percent of Original	102%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	49.9	Electricity (KWh)-Change	-548
Premise Number(s)	288869	Percent of Original	94%	Blended Rate of Electricity	\$0.11
Meter Number(s)	37990	GHGs (Tons CO ₂)-Change	3	Electricity (\$)-Change	-\$61

Energy Performance Benchmarking Analysis

Admin, B&G, EICON Building, Carson City



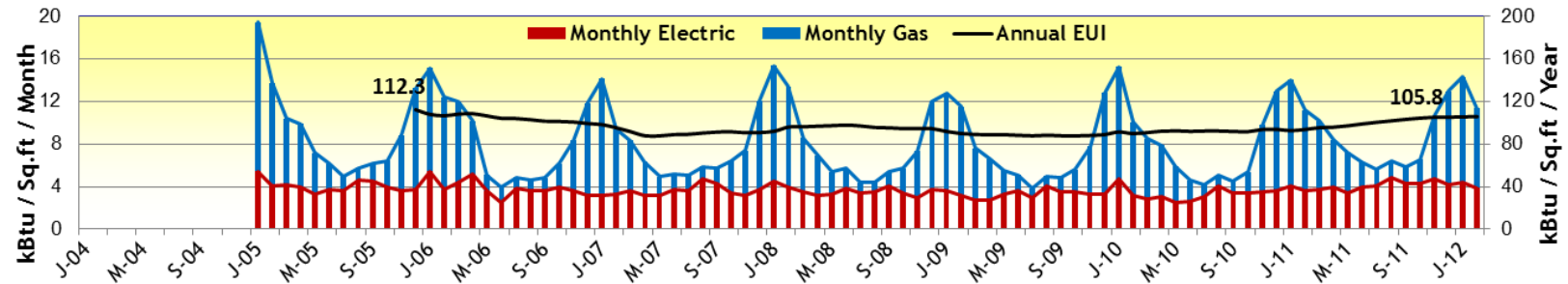
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	N/A	75.8	84.4	85.5	83.7	85.1	91.3	93.0	123%	124%
Energy Cost (\$ / sq.ft / yr)	\$1.43	N/A	\$1.95	\$2.34	\$2.39	\$2.42	\$2.52	\$2.30	\$2.04	105%	143%
GHG Emissions (Tons CO ₂ / yr)	379	N/A	309	348	353	346	350	370	375	121%	99%
EPA Portfolio Manager Score	50	N/A	61	51	49	51	50	44	42	69%	84%

Project Notes	Project Savings Analysis			
Upgraded lighting and computer room HVAC at building # 0397. *2004 energy data excluded due to extensive remodel.	Est. Annual Savings (kWh)	56,114	Est. Project Cost (\$)	\$350,290
	Est. Annual Savings (\$)	\$12,841	Est. Simple Payback (Yrs)	27.3

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Mar-11	Electricity (KWh)-Before	687,250
Year Built	1959	Months Since Completion	11	Electricity (KWh)-After	711,600
Floor Area (sq. ft.)	42,550	GHGs (Tons CO ₂)-Before	274.3	Percent of Original	104%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	335.8	Electricity (KWh)-Change	-24,350
Premise Number(s)	295600	Percent of Original	122%	Blended Rate of Electricity	\$0.09
Meter Number(s)	200378	GHGs (Tons CO ₂)-Change	-62	Electricity (\$)-Change	-\$2,299

Energy Performance Benchmarking Analysis

Admin, B&G, Governor's Mansion North Hall, Carson City



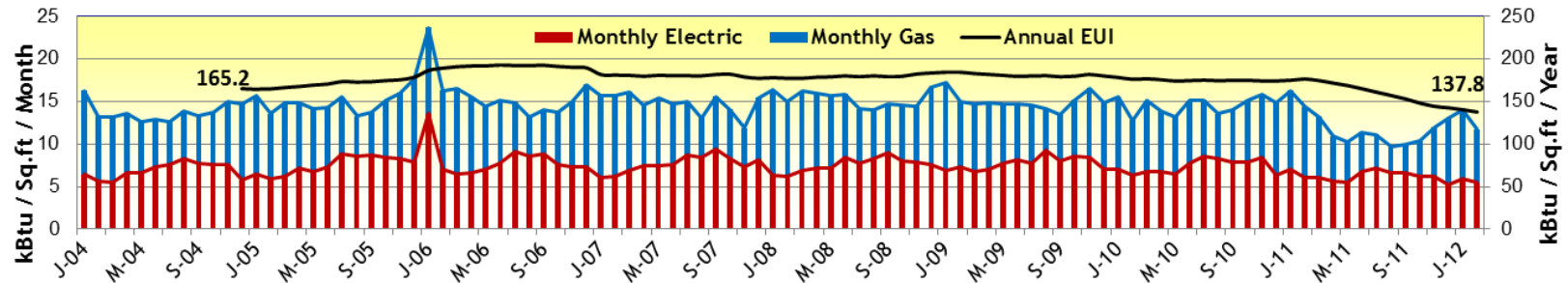
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBTu / sq.ft / yr)	69.1	N/A	112.3	99.4	90.9	94.6	88.9	93.9	105.8	94%	153%
Energy Cost (\$ / sq.ft / yr)	\$1.27	N/A	\$2.36	\$2.32	\$2.15	\$2.23	\$2.14	\$2.00	\$2.03	86%	160%
GHG Emissions (Tons CO ₂ / yr)	113	N/A	160	145	133	137	128	133	155	97%	137%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Replaced lamps and added occupancy sensors at bldg # 0707. Bldg #'s 0151-0153 included in sq.ft. *Energy data prior to 2005 not available.	Est. Annual Savings (kWh)	10,921	Est. Project Cost (\$)	\$13,757
	Est. Annual Savings (\$)	\$1,419	Est. Simple Payback (Yrs)	9.7

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Social/Meeting	Project Completion Date	Apr-11	Electricity (KWh)-Before	190,373
Year Built	1908	Months Since Completion	10	Electricity (KWh)-After	219,157
Floor Area (sq. ft.)	17,809	GHGs (Tons CO ₂)-Before	115.0	Percent of Original	115%
Customer Number(s)	3856090; 3856090	GHGs (Tons CO ₂)-After	128.7	Electricity (KWh)-Change	-28,784
Premise Number(s)	288669; 288668	Percent of Original	112%	Blended Rate of Electricity	\$0.11
Meter Number(s)	N/A	GHGs (Tons CO ₂)-Change	-14	Electricity (\$)-Change	-\$3,053

Energy Performance Benchmarking Analysis

Admin, B&G, Grant Sawyer State Office, Las Vegas



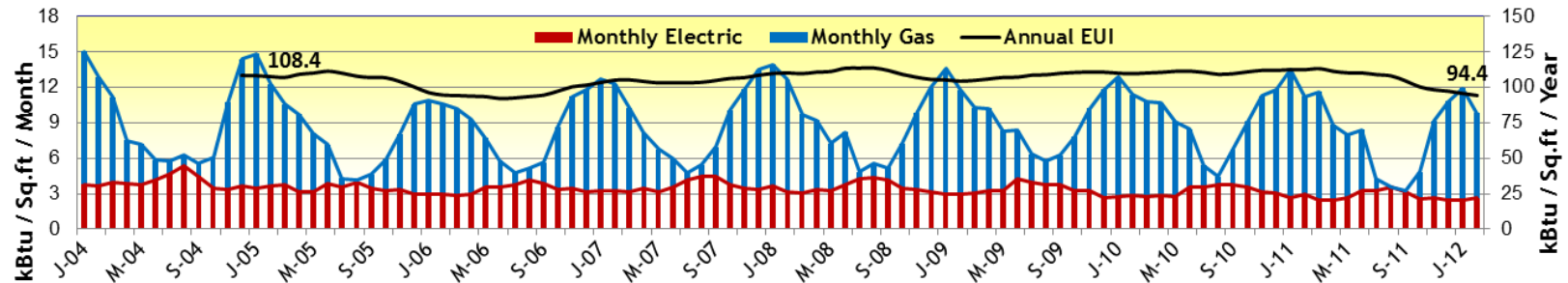
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	55.3	165.2	178.6	189.7	177.4	183.7	180.1	174.2	137.8	83%	249%
Energy Cost (\$ / sq.ft / yr)	\$1.76	\$2.78	\$3.06	\$3.45	\$3.36	\$3.35	\$3.35	\$3.17	\$2.34	84%	133%
GHG Emissions (Tons CO ₂ / yr)	1,897	4,082	4,442	4,747	4,466	4,513	4,513	4,333	3,519	86%	185%
EPA Portfolio Manager Score	50	29	21	17	22	21	21	23	41	141%	82%

Project Notes	Project Savings Analysis			
Upgraded lighting, modified and re-programmed DDC controls, and installed 50KW photovoltaic at building # 1680.	Est. Annual Savings (kWh)	446,391	Est. Project Cost (\$)	\$1,071,489
	Est. Annual Savings (\$)	\$75,278	Est. Simple Payback (Yrs)	14.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Aug-11	Electricity (KWh)-Before	2,977,925
Year Built	1995	Months Since Completion	6	Electricity (KWh)-After	2,347,628
Floor Area (sq. ft.)	224,000	GHGs (Tons CO ₂)-Before	2244.7	Percent of Original	79%
Customer Number(s)	1028318	GHGs (Tons CO ₂)-After	1761.0	Electricity (KWh)-Change	630,297
Premise Number(s)	1547419	Percent of Original	78%	Blended Rate of Electricity	\$0.08
Meter Number(s)	BSD22H000281/CI1309	GHGs (Tons CO ₂)-Change	484	Electricity (\$)-Change	\$47,551

Energy Performance Benchmarking Analysis

Admin, B&G, Nevada State Capitol / State Capitol Annex, Carson City



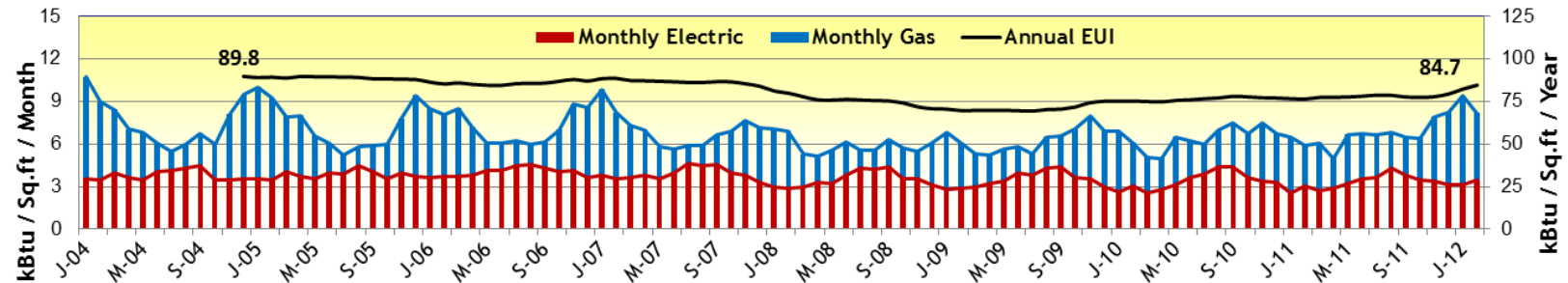
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	108.4	100.4	101.7	108.6	105.6	110.8	112.0	94.4	87%	125%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$2.05	\$1.93	\$2.03	\$2.15	\$2.13	\$2.24	\$2.04	\$1.49	73%	105%
GHG Emissions (Tons CO ₂ / yr)	575	565	511	511	547	534	542	538	457	81%	80%
EPA Portfolio Manager Score	50	52	63	64	58	60	60	60	73	140%	146%

Project Notes	Project Savings Analysis			
Relamped T8's and CFL's at building #'s 0235, 0203. Added mixing box controls to DDC at building # 0235.	Est. Annual Savings (kWh)	143,718	Est. Project Cost (\$)	\$113,660
	Est. Annual Savings (\$)	\$17,088	Est. Simple Payback (Yrs)	6.7

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1870	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	64,642	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	295573	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	200967; 208529; C1295573	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

Admin, B&G, Nevada State Library & Archives, Carson City



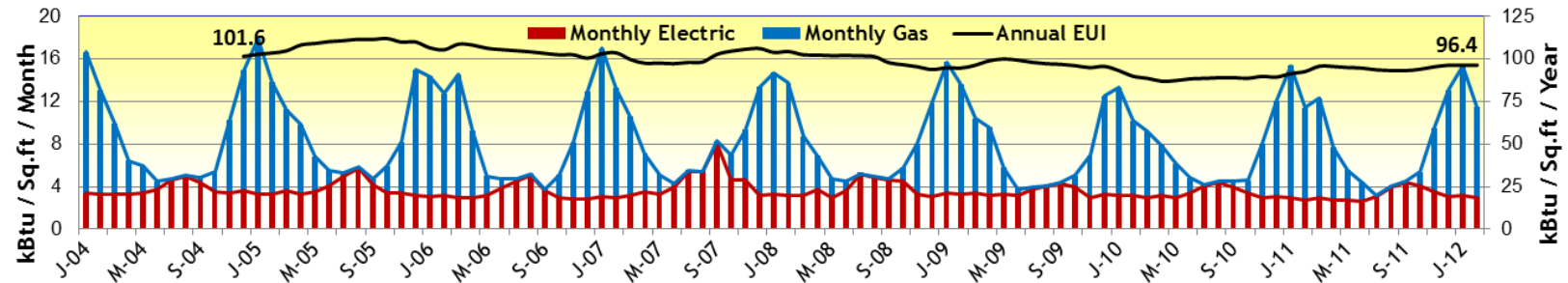
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	93.8	89.8	88.0	87.1	84.0	70.9	75.2	77.1	84.7	94%	90%
Energy Cost (\$ / sq.ft / yr)	\$1.82	\$1.74	\$1.83	\$1.95	\$1.88	\$1.66	\$1.77	\$1.55	\$1.47	85%	81%
GHG Emissions (Tons CO ₂ / yr)	1,376	986	976	989	957	829	855	859	911	92%	66%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Installed 30KW Photovoltaic and completed lighting upgrade at building # 1675.	Est. Annual Savings (kWh)	280,202	Est. Project Cost (\$)	\$444,488
	Est. Annual Savings (\$)	\$27,853	Est. Simple Payback (Yrs)	16.0

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Library/Museum	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1993	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	130,000	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	271678	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	198484; C2716782	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

Admin, B&G, State Mail Services Building, Carson City



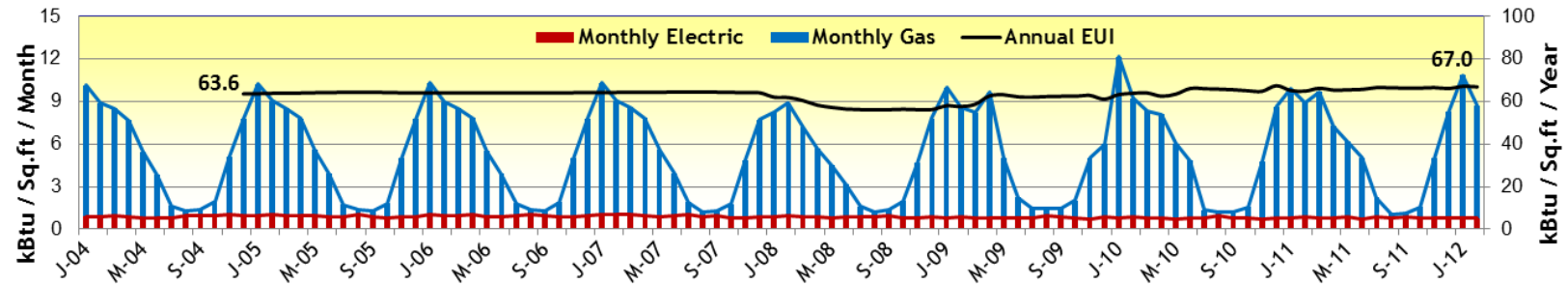
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	101.6	110.1	100.5	106.2	93.8	95.7	89.4	96.4	95%	128%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$2.22	\$2.45	\$2.33	\$2.41	\$2.42	\$2.32	\$1.95	\$1.72	77%	120%
GHG Emissions (Tons CO ₂ / yr)	72	66	71	64	72	63	62	59	61	92%	85%
EPA Portfolio Manager Score	50	32	28	38	26	37	39	42	40	125%	80%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0395. Relamped to high-output T8's with occupancy sensors in the offices.	Est. Annual Savings (kWh)	9,822	Est. Project Cost (\$)	\$7,659
	Est. Annual Savings (\$)	\$1,276	Est. Simple Payback (Yrs)	6.0

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Dec-10	Electricity (KWh)-Before	121,332
Year Built	1953	Months Since Completion	14	Electricity (KWh)-After	107,400
Floor Area (sq. ft.)	8,137	GHGs (Tons CO ₂)-Before	81.0	Percent of Original	89%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	75.9	Electricity (KWh)-Change	13,932
Premise Number(s)	273607	Percent of Original	94%	Blended Rate of Electricity	\$0.10
Meter Number(s)	197379	GHGs (Tons CO ₂)-Change	5	Electricity (\$)-Change	\$1,449

Energy Performance Benchmarking Analysis

Admin, B&G, Stewart Campus, Stewart



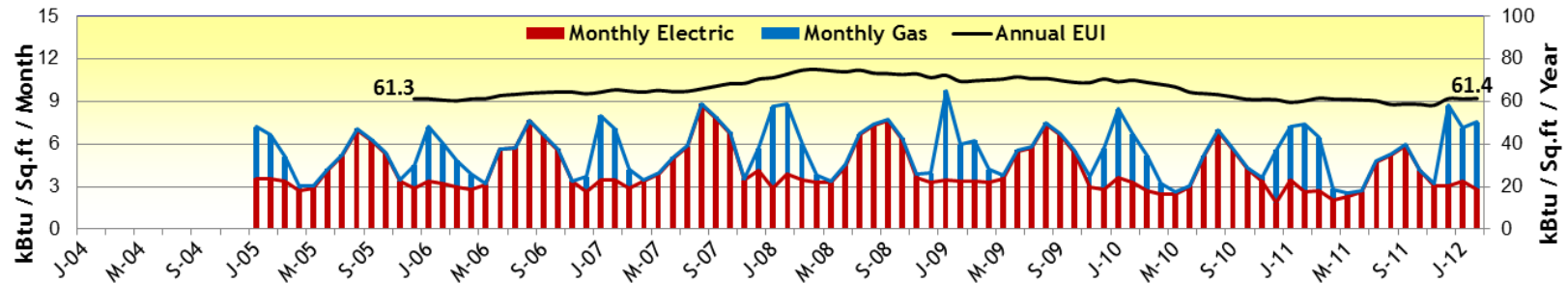
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	N/A	63.6	64.1	64.2	64.1	56.3	61.1	67.5	67.0	105%	N/A
Energy Cost (\$ / sq.ft / yr)	N/A	\$0.92	\$0.96	\$1.00	\$1.00	\$0.92	\$0.98	\$1.00	\$0.83	90%	N/A
GHG Emissions (Tons CO ₂ / yr)	N/A	906	918	920	919	813	864	936	930	103%	N/A
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg #'s 0422, 0431, 0433, 0438, 0440, 0686, 0687, 0737, 0989. Included bldg #'s 0420, 0424, 0738, 2157 in sq.ft.	Est. Annual Savings (kWh)	401,606	Est. Project Cost (\$)	\$436,890
	Est. Annual Savings (\$)	\$52,196	Est. Simple Payback (Yrs)	8.4

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Other Building Type	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	N/A	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	223,774	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	295663	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	193723/203127	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

Agricult, Agri, Agriculture Office, Las Vegas



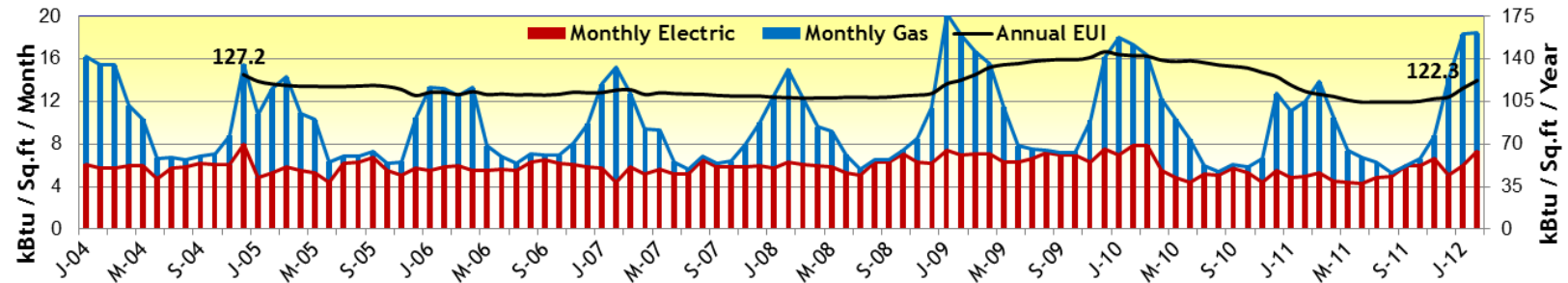
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBtu / sq.ft / yr)	55.3	N/A	61.3	63.7	70.6	71.3	70.6	60.9	61.4	100%	111%
Energy Cost (\$ / sq.ft / yr)	\$1.76	N/A	\$1.68	\$1.85	\$2.04	\$1.95	\$1.95	\$1.74	\$1.52	91%	87%
GHG Emissions (Tons CO ₂ / yr)	60	N/A	64	66	74	72	70	59	57	89%	95%
EPA Portfolio Manager Score	50	N/A	42	47	41	38	43	57	60	143%	120%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0418. Replaced T12's with T8's and added occupancy sensors. *Energy data prior to 2005 not available.	Est. Annual Savings (kWh)	61,507	Est. Project Cost (\$)	\$26,250
	Est. Annual Savings (\$)	\$7,994	Est. Simple Payback (Yrs)	3.3

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	96,394
Year Built	1974	Months Since Completion	10	Electricity (KWh)-After	77,100
Floor Area (sq. ft.)	7,087	GHGs (Tons CO ₂)-Before	59.2	Percent of Original	80%
Customer Number(s)	1028310	GHGs (Tons CO ₂)-After	49.7	Electricity (KWh)-Change	19,294
Premise Number(s)	1078934	Percent of Original	84%	Blended Rate of Electricity	\$0.11
Meter Number(s)	PSD414000139	GHGs (Tons CO ₂)-Change	10	Electricity (\$)-Change	\$2,140

Energy Performance Benchmarking Analysis

Agricult, Agri, Measurement Standards, Sparks



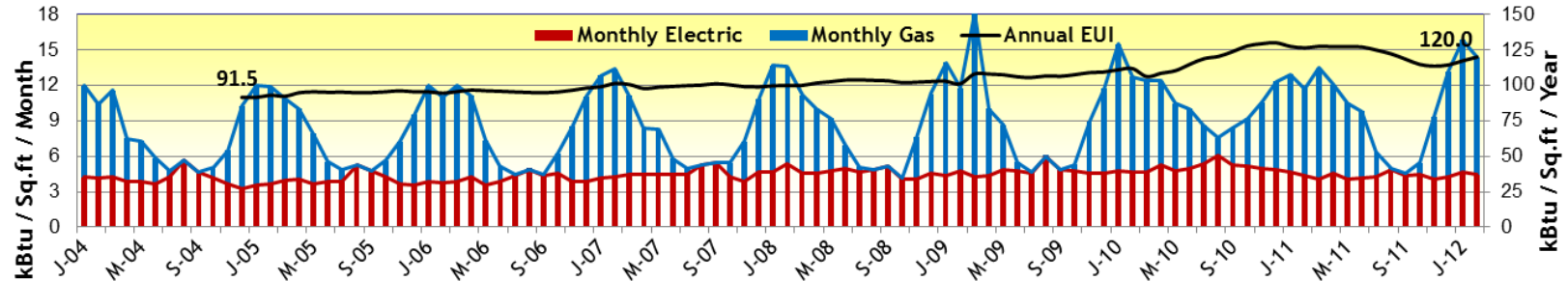
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	62.0	127.2	110.0	112.2	109.5	111.8	145.9	125.6	122.3	96%	197%
Energy Cost (\$ / sq.ft / yr)	\$1.16	\$3.10	\$2.82	\$3.15	\$3.10	\$3.21	\$3.83	\$2.90	\$2.38	77%	205%
GHG Emissions (Tons CO ₂ / yr)	54	46	65	67	65	68	84	71	69	150%	127%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0274.	Est. Annual Savings (kWh)	15,576	Est. Project Cost (\$)	\$6,542
	Est. Annual Savings (\$)	\$1,558	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1971	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	6,542	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	678502	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	182624	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	196170	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

AttGen, B&G, Attorney General's Office / Heroes Memorial Building & Annex, Carson City



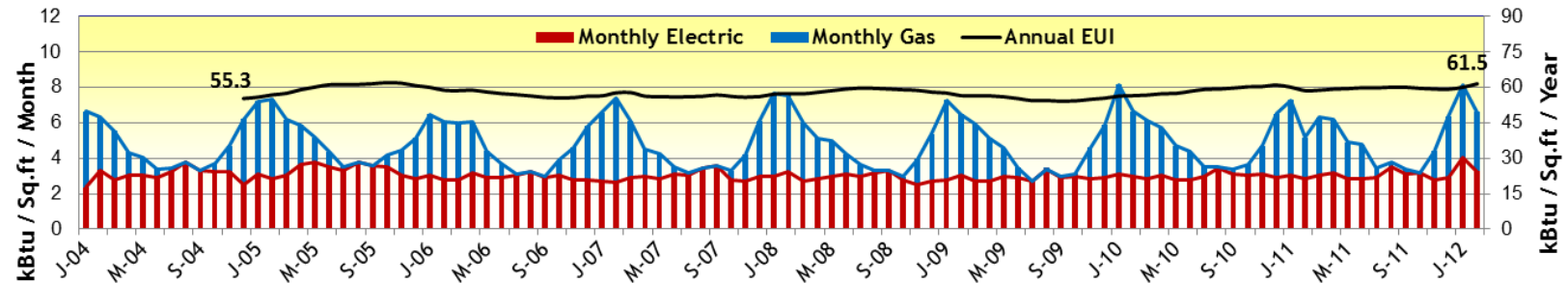
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	91.5	95.5	98.2	98.9	102.7	109.5	130.1	120.0	131%	160%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$2.02	\$2.15	\$2.36	\$2.46	\$2.57	\$2.77	\$2.80	\$2.16	107%	151%
GHG Emissions (Tons CO ₂ / yr)	434	386	392	402	419	435	454	519	468	121%	108%
EPA Portfolio Manager Score	50	58	58	57	51	48	45	33	44	76%	88%

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg #'s 0306, 2311, 0244, 2950. Installed T8 fixtures with 25W lamps and added occupancy sensors.	Est. Annual Savings (kWh)	198,015	Est. Project Cost (\$)	\$369,505
	Est. Annual Savings (\$)	\$26,594	Est. Simple Payback (Yrs)	13.9

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Dec-10	Electricity (KWh)-Before	887,647
Year Built	1937	Months Since Completion	14	Electricity (KWh)-After	875,304
Floor Area (sq. ft.)	48,711	GHGs (Tons CO ₂)-Before	520.9	Percent of Original	99%
Customer Number(s)	131245; 131245	GHGs (Tons CO ₂)-After	558.9	Electricity (KWh)-Change	12,343
Premise Number(s)	273267; 295544	Percent of Original	107%	Blended Rate of Electricity	\$0.10
Meter Number(s)	168013; 200457	GHGs (Tons CO ₂)-Change	-38	Electricity (\$)-Change	\$1,238

Energy Performance Benchmarking Analysis

AttGen, B&G, Frankie Sue Del Papa Building, Carson City



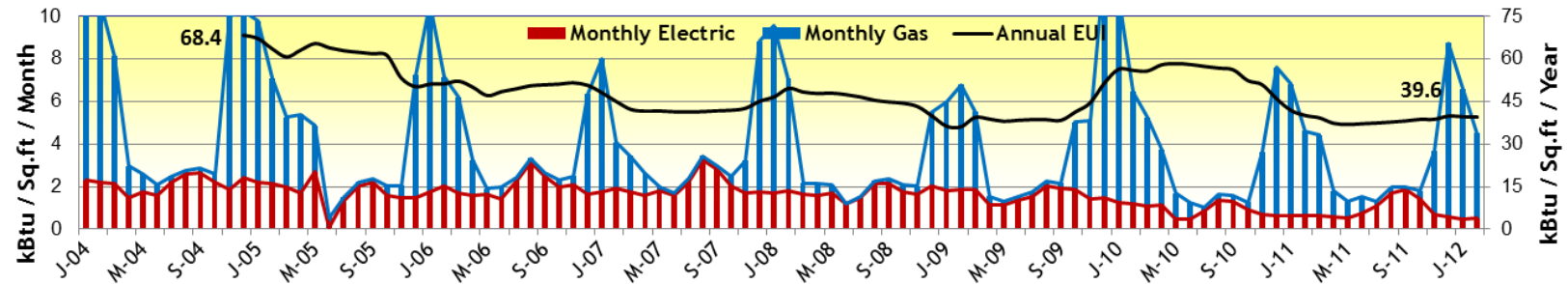
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	55.3	60.7	56.3	56.1	58.0	55.4	61.0	61.5	111%	82%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$1.38	\$1.60	\$1.58	\$1.58	\$1.64	\$1.64	\$1.63	\$1.32	95%	92%
GHG Emissions (Tons CO ₂ / yr)	131	76	84	76	76	77	75	80	82	107%	63%
EPA Portfolio Manager Score	50	79	71	79	80	79	81	76	74	94%	148%

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg # 0261. Installed 28W T8 lamps and added occupancy sensors.	Est. Annual Savings (kWh)	14,317	Est. Project Cost (\$)	\$12,000
	Est. Annual Savings (\$)	\$1,861	Est. Simple Payback (Yrs)	6.4

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Dec-10	Electricity (KWh)-Before	181,291
Year Built	1920	Months Since Completion	14	Electricity (KWh)-After	186,840
Floor Area (sq. ft.)	14,680	GHGs (Tons CO ₂)-Before	93.9	Percent of Original	103%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	97.0	Electricity (KWh)-Change	-5,549
Premise Number(s)	295543	Percent of Original	103%	Blended Rate of Electricity	\$0.10
Meter Number(s)	197792	GHGs (Tons CO ₂)-Change	-3	Electricity (\$)-Change	-\$551

Energy Performance Benchmarking Analysis

CNR, Forestry, Carson City Fire Station #11, Carson City



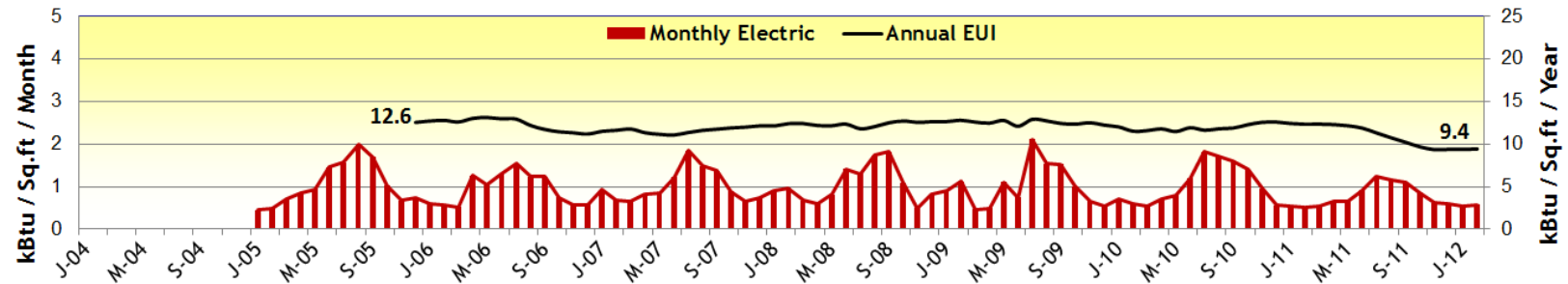
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	95.2	68.4	50.3	50.7	45.1	39.9	51.5	46.1	39.6	58%	42%
Energy Cost (\$ / sq.ft / yr)	\$1.97	\$1.33	\$1.09	\$1.25	\$1.21	\$1.06	\$1.16	\$0.84	\$0.65	49%	33%
GHG Emissions (Tons CO ₂ / yr)	28	17	13	14	13	11	13	10	9	53%	33%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 2492. Replaced T12 ballasts and lamps to T8 high output with occupancy sensors.	Est. Annual Savings (kWh)	4,206	Est. Project Cost (\$)	\$3,936
	Est. Annual Savings (\$)	\$547	Est. Simple Payback (Yrs)	7.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Fire/Police Station	Project Completion Date	Dec-10	Electricity (KWh)-Before	23,578
Year Built	N/A	Months Since Completion	14	Electricity (KWh)-After	11,645
Floor Area (sq. ft.)	3,280	GHGs (Tons CO ₂)-Before	16.6	Percent of Original	49%
Customer Number(s)	346345	GHGs (Tons CO ₂)-After	11.3	Electricity (KWh)-Change	11,933
Premise Number(s)	262883	Percent of Original	68%	Blended Rate of Electricity	\$0.13
Meter Number(s)	10023682	GHGs (Tons CO ₂)-Change	5	Electricity (\$)-Change	\$1,549

Energy Performance Benchmarking Analysis

CNR, Forestry, Las Vegas State Tree Nursery, Floyd Lamb



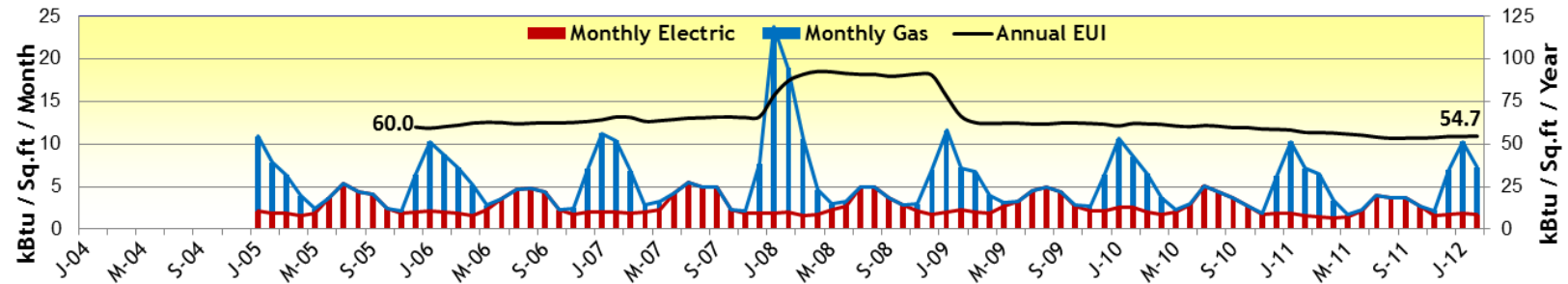
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBTu / sq.ft / yr)	N/A	N/A	12.6	11.2	12.2	12.7	12.2	12.6	9.4	75%	N/A
Energy Cost (\$ / sq.ft / yr)	N/A	N/A	\$0.42	\$0.38	\$0.43	\$0.42	\$0.43	\$0.46	\$0.35	82%	N/A
GHG Emissions (Tons CO ₂ / yr)	N/A	N/A	24	26	29	30	29	30	22	91%	N/A
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg #'s 0283, 0617, 2194. Bldg #'s 0637, 0638, 2195, 3044 included in sq.ft. *Energy data prior to 2005 not available.	Est. Annual Savings (kWh)	16,322	Est. Project Cost (\$)	\$6,855
	Est. Annual Savings (\$)	\$1,632	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Other Building Type	Project Completion Date	Dec-11	Electricity (KWh)-Before	5,820
Year Built	1975	Months Since Completion	2	Electricity (KWh)-After	4,600
Floor Area (sq. ft.)	14,130	GHGs (Tons CO ₂)-Before	3.3	Percent of Original	79%
Customer Number(s)	1021440	GHGs (Tons CO ₂)-After	2.6	Electricity (KWh)-Change	1,220
Premise Number(s)	1131428	Percent of Original	79%	Blended Rate of Electricity	\$0.15
Meter Number(s)	PB818000112	GHGs (Tons CO ₂)-Change	1	Electricity (\$)-Change	\$181

Energy Performance Benchmarking Analysis

CNR, Forestry, NDF / State Parks Office Building, Las Vegas



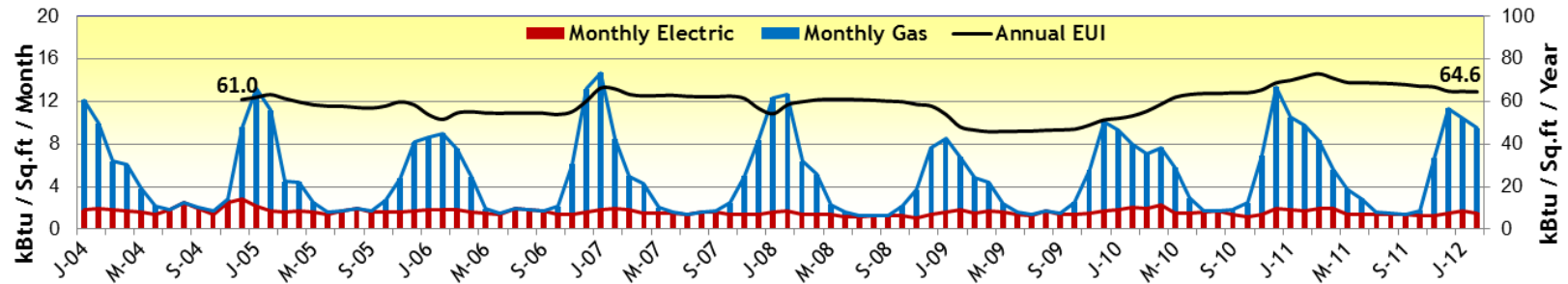
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBtu / sq.ft. / yr)	55.3	N/A	60.0	63.3	66.3	90.4	61.7	58.6	54.7	91%	99%
Energy Cost (\$ / sq.ft. / yr)	\$1.76	N/A	\$1.28	\$1.40	\$1.51	\$1.69	\$1.45	\$1.39	\$1.07	84%	61%
GHG Emissions (Tons CO ₂ / yr)	70	N/A	58	59	63	71	60	57	50	87%	71%
EPA Portfolio Manager Score	50	N/A	73	73	70	59	72	75	83	114%	166%

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 1989, 2033. Replaced T12's with T8's and added occupancy sensors. *Energy data prior to 2005 not available.	Est. Annual Savings (kWh)	20,933	Est. Project Cost (\$)	\$11,348
	Est. Annual Savings (\$)	\$2,721	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	73,111
Year Built	2000	Months Since Completion	10	Electricity (KWh)-After	60,240
Floor Area (sq. ft.)	8,300	GHGs (Tons CO ₂)-Before	52.5	Percent of Original	82%
Customer Number(s)	1593206	GHGs (Tons CO ₂)-After	43.2	Electricity (KWh)-Change	12,871
Premise Number(s)	1778496	Percent of Original	82%	Blended Rate of Electricity	\$0.11
Meter Number(s)	PTD423002631	GHGs (Tons CO ₂)-Change	9	Electricity (\$)-Change	\$1,355

Energy Performance Benchmarking Analysis

CNR, Forestry, NDF Western Regional Headquarters, Washoe Valley



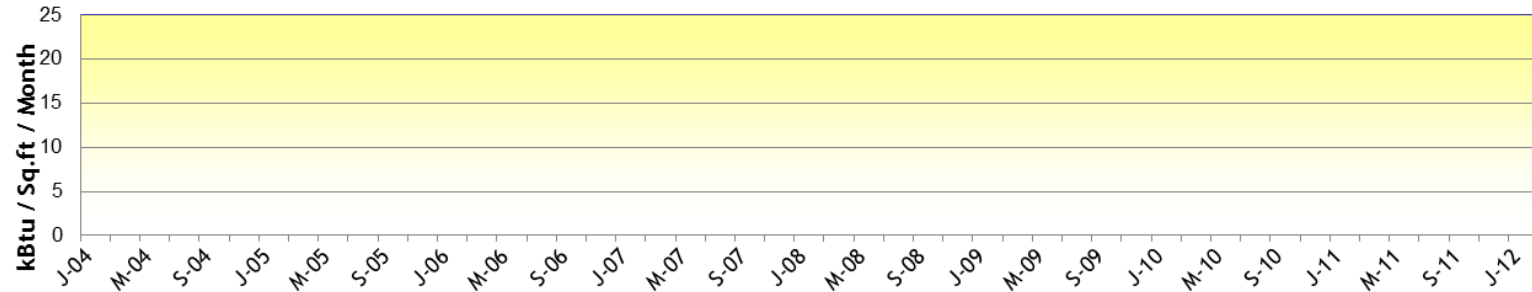
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft. / yr)	75.2	61.0	58.5	60.3	56.7	57.9	51.3	68.8	64.6	106%	86%
Energy Cost (\$ / sq.ft. / yr)	\$1.43	\$1.17	\$1.15	\$1.22	\$1.16	\$1.09	\$1.09	\$1.22	\$0.95	81%	67%
GHG Emissions (Tons CO ₂ / yr)	149	78	73	74	70	68	65	82	76	98%	51%
EPA Portfolio Manager Score	50	87	90	90	92	93	94	86	90	103%	180%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 1655, 2339. Building # 0895 included in sq.ft.	Est. Annual Savings (kWh)	11,319	Est. Project Cost (\$)	\$12,780
	Est. Annual Savings (\$)	\$1,471	Est. Simple Payback (Yrs)	8.7

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Jan-12	Electricity (KWh)-Before	9,015
Year Built	1980	Months Since Completion	1	Electricity (KWh)-After	7,560
Floor Area (sq. ft.)	16,780	GHGs (Tons CO ₂)-Before	10.3	Percent of Original	84%
Customer Number(s)	344924	GHGs (Tons CO ₂)-After	10.1	Electricity (KWh)-Change	1,455
Premise Number(s)	261808	Percent of Original	98%	Blended Rate of Electricity	\$0.10
Meter Number(s)	170271	GHGs (Tons CO ₂)-Change	0	Electricity (\$)-Change	\$150

Energy Performance Benchmarking Analysis

CNR, Forestry, PCC NDF Office, Pioche



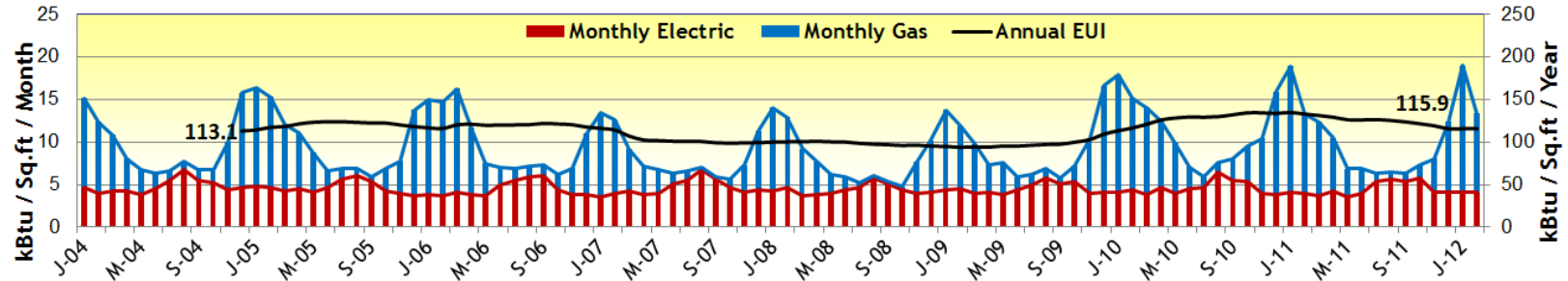
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	91.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Energy Cost (\$ / sq.ft / yr)	\$2.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GHG Emissions (Tons CO ₂ / yr)	382	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg # 0863. Bldg #'s 2210-2212, 1364 included in sq.ft. *Unable to procure utility data for Pioche Conservation Camp.	Est. Annual Savings (kWh)	5,714	Est. Project Cost (\$)	\$2,400
	Est. Annual Savings (\$)	\$571	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Feb-12	Electricity (KWh)-Before	N/A
Year Built	1987	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	29,029	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	Lincoln County Power	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	Unknown	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	Unknown	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

CNR, Forestry, Sierra Front Interagency Dispatch Center & Hangar, Minden



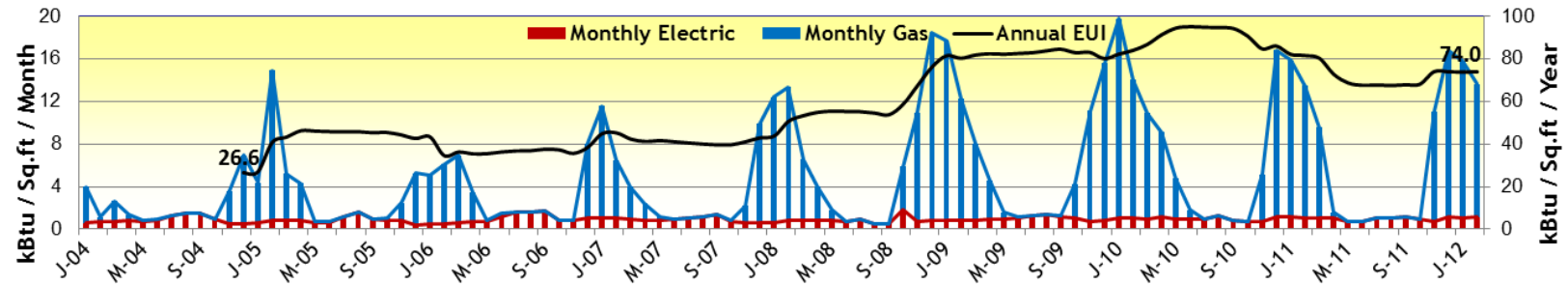
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBTU / sq.ft / yr)	81.2	113.1	118.3	117.8	99.5	95.4	109.3	133.8	115.9	102%	143%
Energy Cost (\$ / sq.ft / yr)	\$1.99	\$2.21	\$2.36	\$2.50	\$2.36	\$2.28	\$2.54	\$2.59	\$2.04	92%	103%
GHG Emissions (Tons CO ₂ / yr)	120	136	138	136	124	118	130	149	135	99%	112%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg #'s 2490-2491. Replaced metal halides, retrofitted T12's with T8's, and switched to lower wattage lamps.	Est. Annual Savings (kWh)	21,884	Est. Project Cost (\$)	\$13,280
	Est. Annual Savings (\$)	\$2,381	Est. Simple Payback (Yrs)	5.6

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Fire/Police Station	Project Completion Date	Feb-12	Electricity (KWh)-Before	N/A
Year Built	1991	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	14,200	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	403139; 405009	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	300562; 301771	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	166214; 194642	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

CNR, Forestry, Western Region NDF Nursery, Washoe Valley



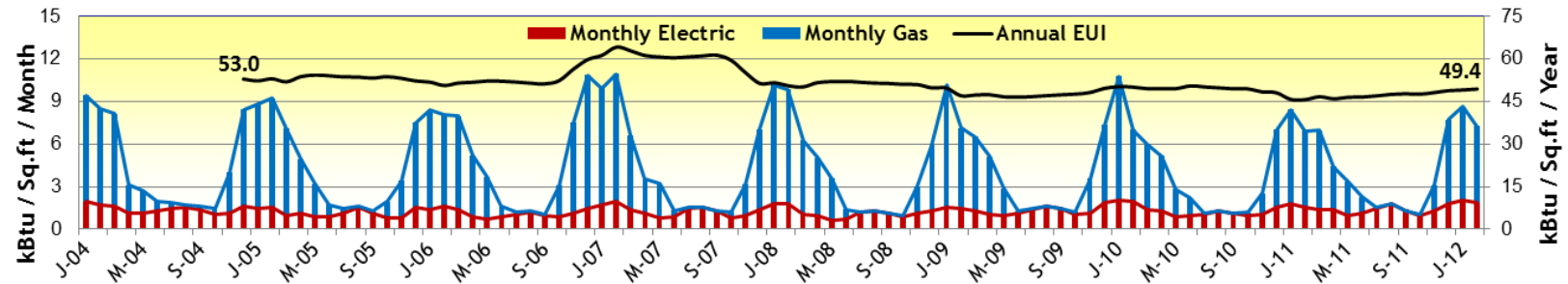
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBTu / sq.ft / yr)	N/A	26.6	42.7	38.5	43.0	76.3	80.2	86.1	74.0	279%	N/A
Energy Cost (\$ / sq.ft / yr)	N/A	\$0.54	\$0.73	\$0.77	\$0.81	\$1.15	\$1.24	\$1.26	\$0.92	171%	N/A
GHG Emissions (Tons CO ₂ / yr)	N/A	22	30	29	32	50	53	56	50	227%	N/A
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0890, 0894. Building #'s 0888, 0889, 0891, 0893, 2340, 2343 included in sq.ft.	Est. Annual Savings (kWh)	4,814	Est. Project Cost (\$)	\$1,600
	Est. Annual Savings (\$)	\$576	Est. Simple Payback (Yrs)	2.8

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Other Building Type	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1980	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	10,630	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	345205; 243068	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	262024; 260909	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	4148325; 205404	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

CNR, Lands, JOIN (Job Opportunities in Nevada) / NDOW Office, Winnemucca



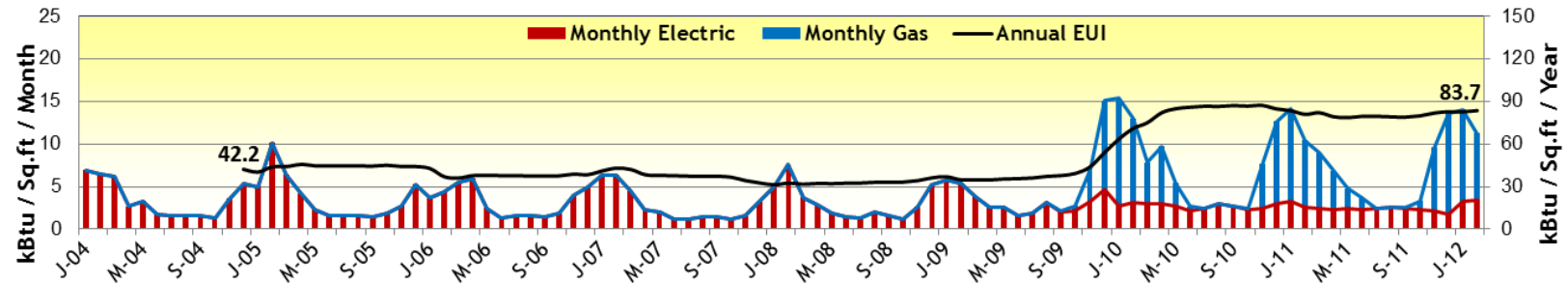
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBTu / sq.ft / yr)	90.2	53.0	52.3	59.8	51.4	49.8	49.6	48.1	49.4	93%	55%
Energy Cost (\$ / sq.ft / yr)	\$1.65	\$0.96	\$0.94	\$1.05	\$1.02	\$0.97	\$1.03	\$0.93	\$0.84	88%	51%
GHG Emissions (Tons CO ₂ / yr)	107	41	38	42	39	37	38	37	39	96%	37%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg #'s 2433, 2444. Bldg 2445 also included in sq.ft. *Additional electric data possibly missing due to construction.	Est. Annual Savings (kWh)	13,874	Est. Project Cost (\$)	\$10,992
	Est. Annual Savings (\$)	\$1,803	Est. Simple Payback (Yrs)	6.1

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1964	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	10,600	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	460999; 460999; 465972	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	342104; 345570; 345571	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	118156; 4150862; 2117518	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

CNR, Parks, Headquarters Office / Shop / Storage, Washoe Lake



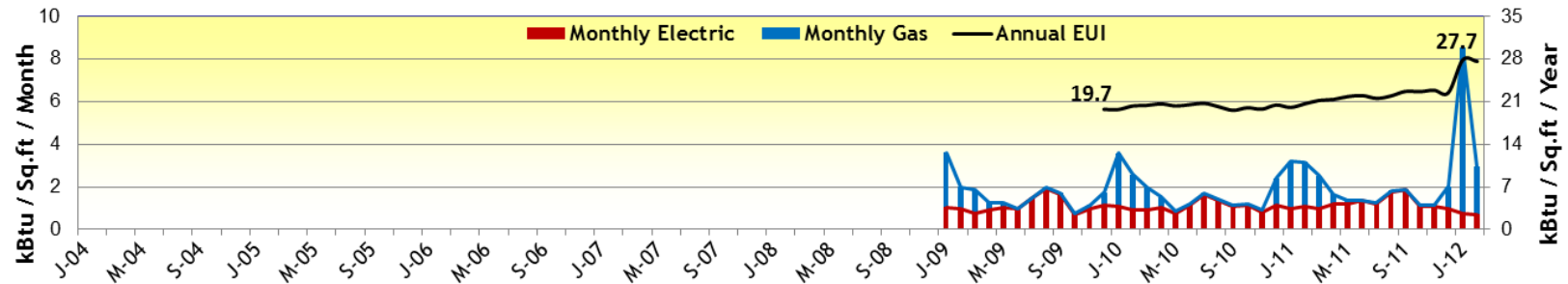
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	42.2	44.2	38.5	32.6	36.2	53.8	84.9	83.7	198%	111%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$1.44	\$1.64	\$1.58	\$1.35	\$1.51	\$1.79	\$1.81	\$1.49	104%	105%
GHG Emissions (Tons CO ₂ / yr)	17	9	10	8	7	8	10	12	12	130%	71%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0483. Installed T8's, CFLs, occupancy sensors, and LED exit signs. *Gas meter came online in 2009.	Est. Annual Savings (kWh)	4,566	Est. Project Cost (\$)	\$3,840
	Est. Annual Savings (\$)	\$593	Est. Simple Payback (Yrs)	6.5

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1979	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	1,920	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	343396	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	261726	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	207463	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

CultAffr, M&H, Boulder City Museum Maintenance, Boulder City



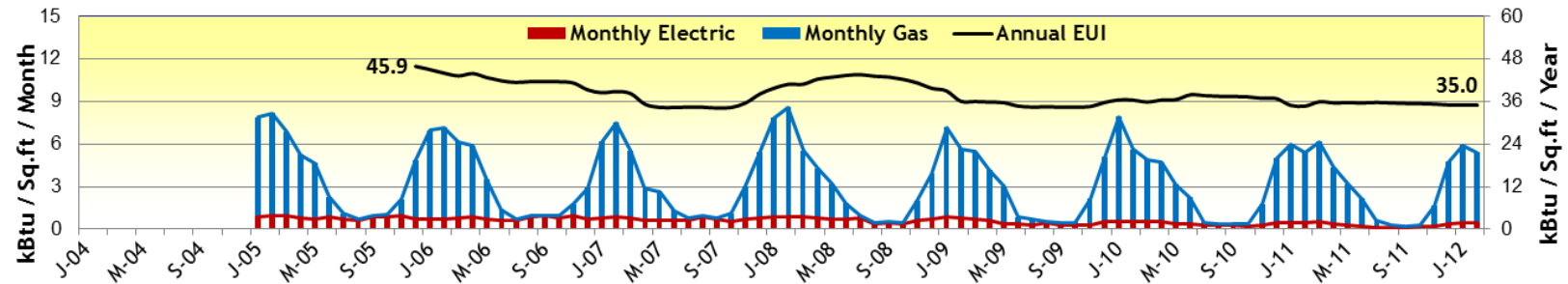
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2009	% Median
Energy Use (kBtu / sq.ft / yr)	42.9	N/A	N/A	N/A	N/A	N/A	19.7	20.5	27.7	140%	64%
Energy Cost (\$ / sq.ft / yr)	\$0.77	N/A	N/A	N/A	N/A	N/A	\$0.36	\$0.47	\$0.52	144%	68%
GHG Emissions (Tons CO ₂ / yr)	40	N/A	N/A	N/A	N/A	N/A	17	17	22	124%	54%
EPA Portfolio Manager Score	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0841. *Energy data prior to 2009 not available.	Est. Annual Savings (kWh)	21,905	Est. Project Cost (\$)	\$9,200
	Est. Annual Savings (\$)	\$2,190	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Maintenance Shop	Project Completion Date	Dec-11	Electricity (KWh)-Before	5,413
Year Built	1996	Months Since Completion	2	Electricity (KWh)-After	3,920
Floor Area (sq. ft.)	9,200	GHGs (Tons CO ₂)-Before	4.1	Percent of Original	72%
Customer Number(s)	Boulder City	GHGs (Tons CO ₂)-After	6.5	Electricity (KWh)-Change	1,493
Premise Number(s)	Account # 026-0260-00	Percent of Original	158%	Blended Rate of Electricity	\$0.10
Meter Number(s)	16031G	GHGs (Tons CO ₂)-Change	-2	Electricity (\$)-Change	\$143

Energy Performance Benchmarking Analysis

CultAffr, M&H, Indian Hills Warehouse, Carson City



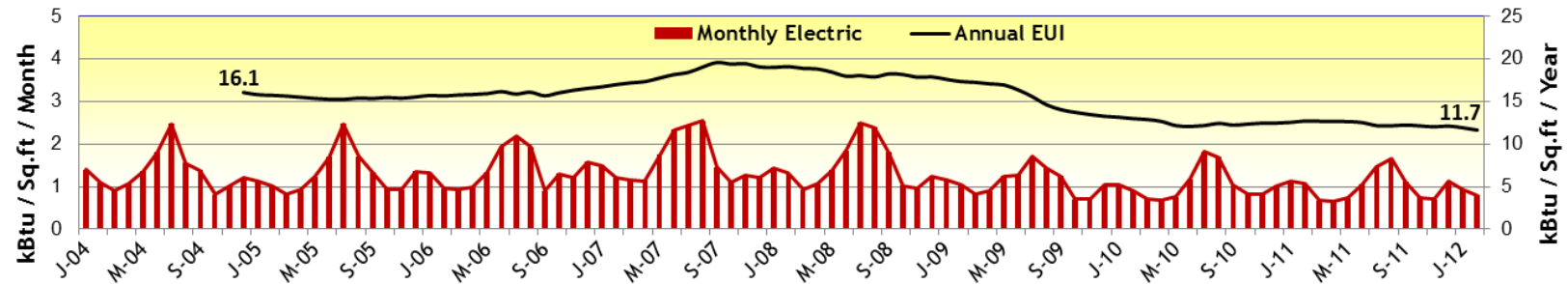
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBTu / sq.ft / yr)	33.4	N/A	45.9	39.3	38.1	39.7	35.7	36.9	35.0	76%	105%
Energy Cost (\$ / sq.ft / yr)	\$0.69	N/A	\$0.75	\$0.69	\$0.66	\$0.66	\$0.56	\$0.53	\$0.39	52%	57%
GHG Emissions (Tons CO ₂ / yr)	59	N/A	47	41	40	40	35	35	32	68%	55%
EPA Portfolio Manager Score	50	N/A	42	51	53	54	64	65	71	169%	142%

Project Notes	Project Savings Analysis			
Replaced T12's, T8's, incandescents, exit signs, high-pressure sodium fixtures at building # 0860. *Energy data prior to 2005 not available.	Est. Annual Savings (kWh)	24,304	Est. Project Cost (\$)	\$30,655
	Est. Annual Savings (\$)	\$3,159	Est. Simple Payback (Yrs)	9.7

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Warehouse	Project Completion Date	Apr-11	Electricity (KWh)-Before	28,161
Year Built	1980	Months Since Completion	10	Electricity (KWh)-After	12,120
Floor Area (sq. ft.)	15,440	GHGs (Tons CO ₂)-Before	29.4	Percent of Original	43%
Customer Number(s)	373895	GHGs (Tons CO ₂)-After	22.6	Electricity (KWh)-Change	16,041
Premise Number(s)	291979	Percent of Original	77%	Blended Rate of Electricity	\$0.12
Meter Number(s)	N/A	GHGs (Tons CO ₂)-Change	7	Electricity (\$)-Change	\$1,862

Energy Performance Benchmarking Analysis

CultAffr, M&H, Lost City Museum, Overton



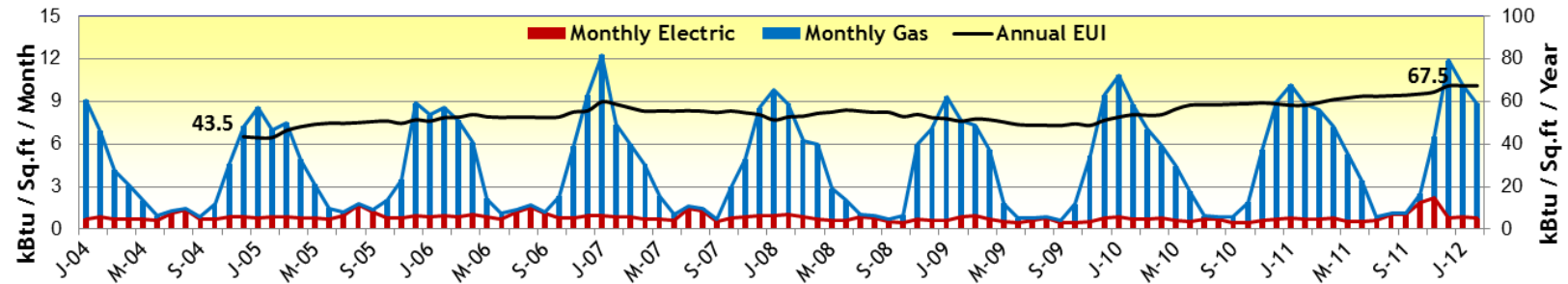
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2008	% Median
Energy Use (kBtu / sq.ft / yr)	64.3	16.1	15.5	16.6	19.1	17.9	13.3	12.5	11.7	65%	18%
Energy Cost (\$ / sq.ft / yr)	\$2.18	\$0.47	\$0.46	\$0.49	\$0.56	\$0.53	\$0.39	\$0.36	\$0.34	65%	16%
GHG Emissions (Tons CO ₂ / yr)	233	63	61	65	75	71	52	49	46	65%	20%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 0267, 0973-0974.	Est. Annual Savings (kWh)	56,176	Est. Project Cost (\$)	\$23,594
	Est. Annual Savings (\$)	\$5,617	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Library/Museum	Project Completion Date	Mar-12	Electricity (KWh)-Before	N/A
Year Built	1935	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	23,594	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	40008786001; 40008786002	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	17541004; 17531078	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	43022869; 43022890	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

CultAffr, M&H, Marjorie Russell Research Center, Carson City



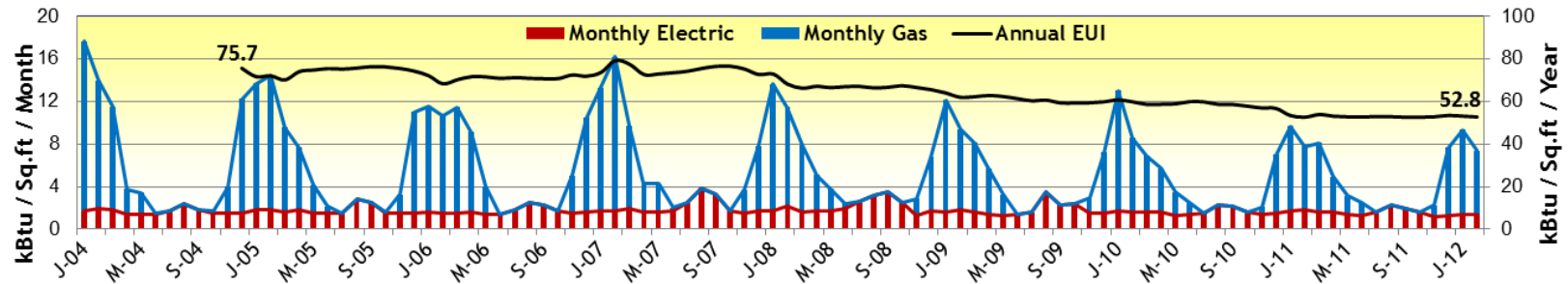
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBTu / sq.ft / yr)	32.7	43.5	51.4	55.7	53.8	52.5	51.2	58.9	67.5	155%	206%
Energy Cost (\$ / sq.ft / yr)	\$0.68	\$0.70	\$0.86	\$0.96	\$0.91	\$0.85	\$0.81	\$0.86	\$0.86	122%	127%
GHG Emissions (Tons CO ₂ / yr)	22	18	21	22	21	20	19	22	26	147%	115%
EPA Portfolio Manager Score	50	27	20	16	19	23	27	19	10	37%	20%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0208. Replaced fixtures and added occupancy sensors.	Est. Annual Savings (kWh)	36,970	Est. Project Cost (\$)	\$15,840
	Est. Annual Savings (\$)	\$4,805	Est. Simple Payback (Yrs)	3.3

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Warehouse	Project Completion Date	Apr-11	Electricity (KWh)-Before	14,242
Year Built	1968	Months Since Completion	10	Electricity (KWh)-After	18,065
Floor Area (sq. ft.)	6,000	GHGs (Tons CO ₂)-Before	16.0	Percent of Original	127%
Customer Number(s)	383272	GHGs (Tons CO ₂)-After	20.4	Electricity (KWh)-Change	-3,823
Premise Number(s)	287176	Percent of Original	127%	Blended Rate of Electricity	\$0.11
Meter Number(s)	165945	GHGs (Tons CO ₂)-Change	-4	Electricity (\$)-Change	-\$429

Energy Performance Benchmarking Analysis

CultAffr, M&H, Museum Administrative Office, Carson City



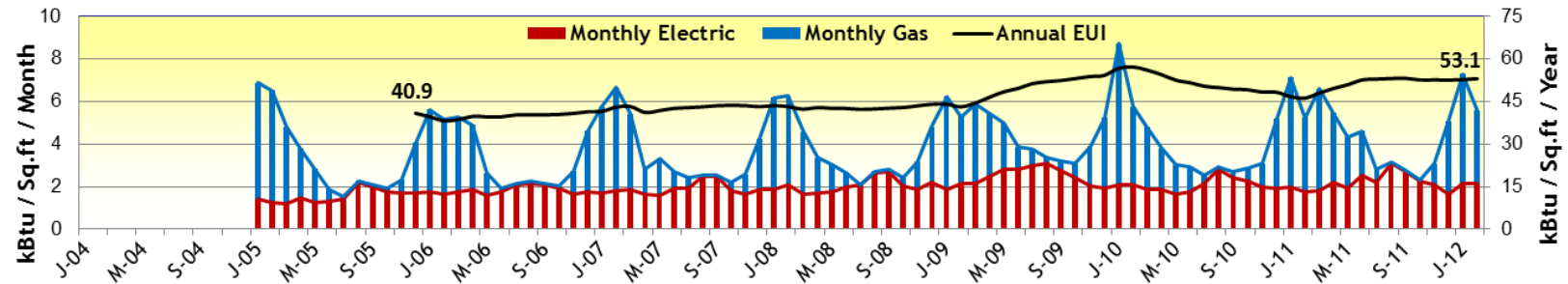
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	75.7	74.3	72.0	72.7	65.6	59.9	56.8	52.8	70%	70%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$1.30	\$1.40	\$1.43	\$1.58	\$1.54	\$1.41	\$1.24	\$1.02	79%	72%
GHG Emissions (Tons CO ₂ / yr)	13	8	8	8	8	8	7	6	6	75%	44%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 2028. Relamped T8's and replaced incandescents with CFLs.	Est. Annual Savings (kWh)	682	Est. Project Cost (\$)	\$876
	Est. Annual Savings (\$)	\$89	Est. Simple Payback (Yrs)	9.8

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	8,203
Year Built	1910	Months Since Completion	10	Electricity (KWh)-After	6,666
Floor Area (sq. ft.)	1,500	GHGs (Tons CO ₂)-Before	5.9	Percent of Original	81%
Customer Number(s)	373894	GHGs (Tons CO ₂)-After	4.6	Electricity (KWh)-Change	1,537
Premise Number(s)	281143	Percent of Original	78%	Blended Rate of Electricity	\$0.14
Meter Number(s)	4139327	GHGs (Tons CO ₂)-Change	1	Electricity (\$)-Change	\$209

Energy Performance Benchmarking Analysis

CultAffr, M&H, Nevada State Museum, Mint, Carson City



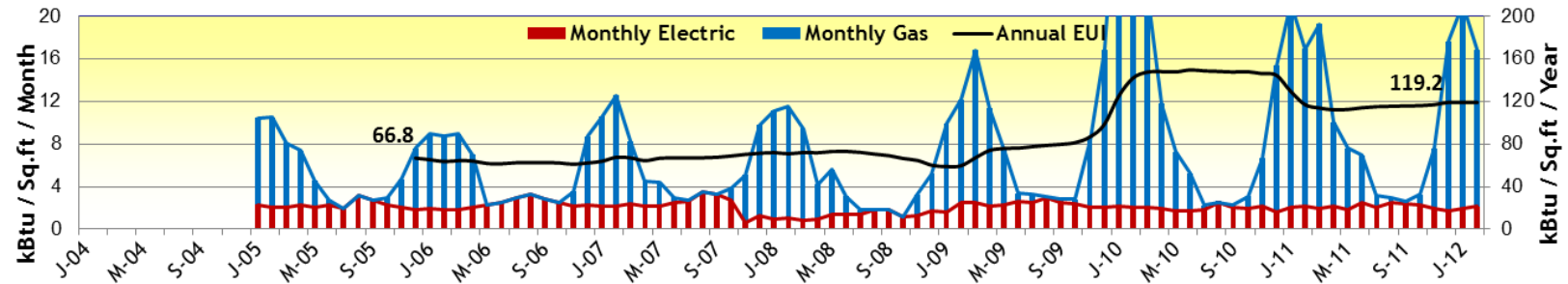
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBtu / sq.ft / yr)	93.8	N/A	40.9	41.4	43.2	44.1	54.3	48.3	53.1	130%	57%
Energy Cost (\$ / sq.ft / yr)	\$1.82	N/A	\$0.88	\$1.01	\$1.06	\$1.13	\$1.44	\$1.13	\$1.05	120%	58%
GHG Emissions (Tons CO ₂ / yr)	469	N/A	147	157	164	171	209	182	198	134%	42%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0205. Replaced T12's, relamped T8's and added occupancy sensors. *Energy data prior to 2005 not available.	Est. Annual Savings (kWh)	16,536	Est. Project Cost (\$)	\$18,348
	Est. Annual Savings (\$)	\$2,149	Est. Simple Payback (Yrs)	8.5

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Library/Museum	Project Completion Date	Apr-11	Electricity (KWh)-Before	261,397
Year Built	1871	Months Since Completion	10	Electricity (KWh)-After	295,200
Floor Area (sq. ft.)	44,337	GHGs (Tons CO ₂)-Before	140.3	Percent of Original	113%
Customer Number(s)	373895	GHGs (Tons CO ₂)-After	158.9	Electricity (KWh)-Change	-33,803
Premise Number(s)	295540	Percent of Original	113%	Blended Rate of Electricity	\$0.11
Meter Number(s)	N/A	GHGs (Tons CO ₂)-Change	-19	Electricity (\$)-Change	-\$3,557

Energy Performance Benchmarking Analysis

CultAffr, M&H, North Annex / FIB Building, Carson City



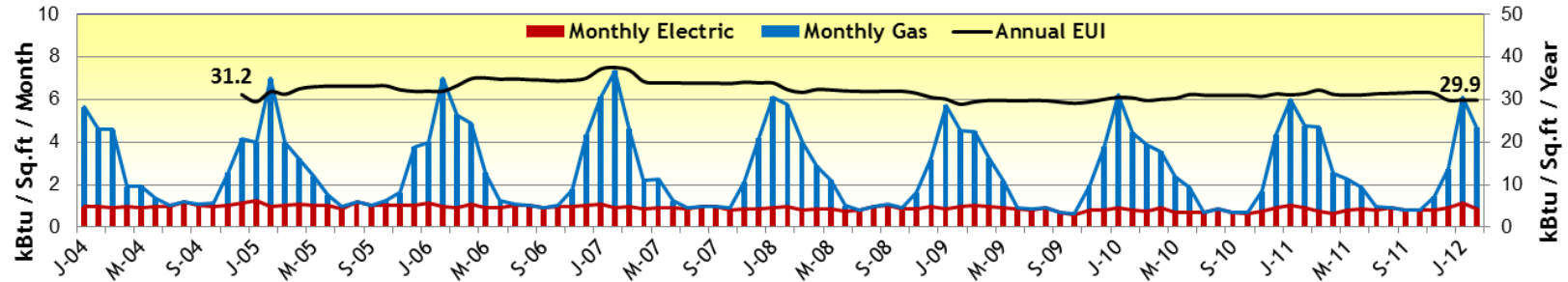
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBTu / sq.ft / yr)	93.8	N/A	66.8	62.3	71.5	60.1	98.4	144.7	119.2	178%	127%
Energy Cost (\$ / sq.ft / yr)	\$1.82	N/A	\$1.42	\$1.49	\$1.56	\$1.10	\$1.86	\$2.19	\$1.57	111%	86%
GHG Emissions (Tons CO ₂ / yr)	90	N/A	44	43	47	35	59	78	67	152%	75%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 2027. Replaced T12's, relamped T8's and added occupancy sensors. *Energy data prior to 2005 not available.	Est. Annual Savings (kWh)	20,238	Est. Project Cost (\$)	\$8,500
	Est. Annual Savings (\$)	\$2,024	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Library/Museum	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1955	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	8,500	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	395604	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	295539	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	185634	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

CultAffr, M&H, Nevada State Railroad Museum, Carson City



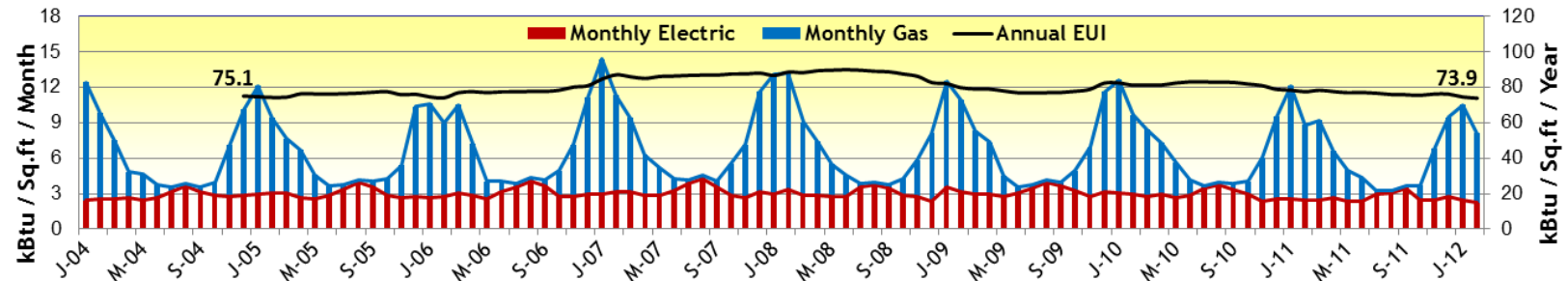
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	90.9	31.2	31.9	35.1	33.9	30.5	30.0	31.3	29.9	96%	33%
Energy Cost (\$ / sq.ft / yr)	\$1.79	\$0.62	\$0.67	\$0.72	\$0.68	\$0.63	\$0.62	\$0.58	\$0.49	80%	27%
GHG Emissions (Tons CO ₂ / yr)	511	121	125	131	125	115	112	113	111	92%	22%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 0861, 0970-0971, 1416. Installed high-bay T5's, T8's, LED exit signs, and CFLs. Bldg # 0969 included in sq.ft	Est. Annual Savings (kWh)	101,664	Est. Project Cost (\$)	\$67,800
	Est. Annual Savings (\$)	\$13,213	Est. Simple Payback (Yrs)	5.1

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Library/Museum	Project Completion Date	Apr-11	Electricity (KWh)-Before	136,753
Year Built	1978	Months Since Completion	10	Electricity (KWh)-After	128,320
Floor Area (sq. ft.)	50,456	GHGs (Tons CO ₂)-Before	94.2	Percent of Original	94%
Customer Number(s)	677234; 677234; 677234	GHGs (Tons CO ₂)-After	87.7	Electricity (KWh)-Change	8,433
Premise Number(s)	266461; 289189; 528669	Percent of Original	93%	Blended Rate of Electricity	\$0.11
Meter Number(s)	197985	GHGs (Tons CO ₂)-Change	7	Electricity (\$)-Change	\$926

Energy Performance Benchmarking Analysis

Educ, B&G, Department of Education Office, Carson City



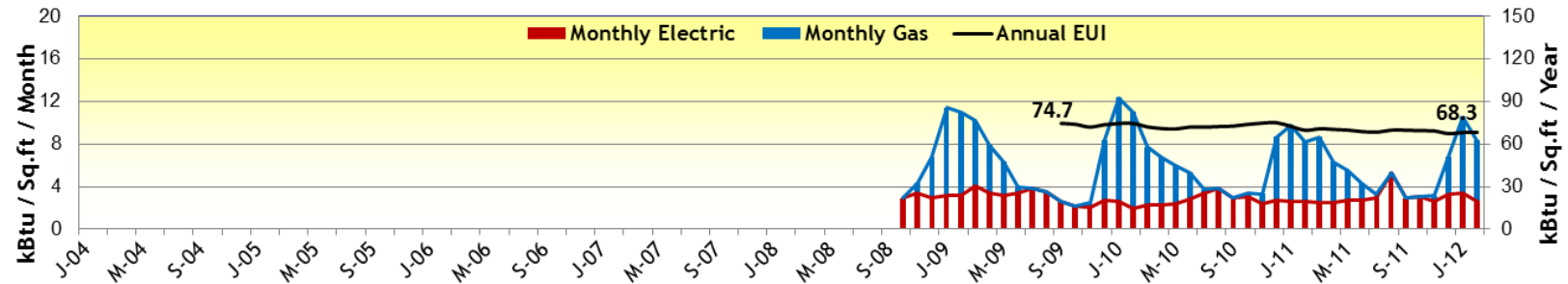
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	75.1	76.1	81.0	88.1	82.7	82.4	78.9	73.9	98%	98%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$1.57	\$1.70	\$1.86	\$2.01	\$1.96	\$2.07	\$1.79	\$1.44	92%	101%
GHG Emissions (Tons CO ₂ / yr)	255	174	180	188	202	190	194	183	168	97%	66%
EPA Portfolio Manager Score	50	72	69	67	61	66	64	68	75	104%	150%

Project Notes	Project Savings Analysis			
Replaced T12's with high-output T8's, changed out 18W incandescents with CFLs, and added occupancy sensors at bldg #'s 0202, 2308.	Est. Annual Savings (kWh)	79,076	Est. Project Cost (\$)	\$67,429
	Est. Annual Savings (\$)	\$10,277	Est. Simple Payback (Yrs)	6.6

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Nov-10	Electricity (KWh)-Before	382,008
Year Built	1965	Months Since Completion	15	Electricity (KWh)-After	329,086
Floor Area (sq. ft.)	28,652	GHGs (Tons CO ₂)-Before	254.4	Percent of Original	86%
Customer Number(s)	131245; 131245; 131245	GHGs (Tons CO ₂)-After	228.3	Electricity (KWh)-Change	52,922
Premise Number(s)	295605; 264757; 262887	Percent of Original	90%	Blended Rate of Electricity	\$0.11
Meter Number(s)	175528; 1135808; 10051255	GHGs (Tons CO ₂)-Change	26	Electricity (\$)-Change	\$5,690

Energy Performance Benchmarking Analysis

ETR, ESD, Fallon ETR Office, Fallon



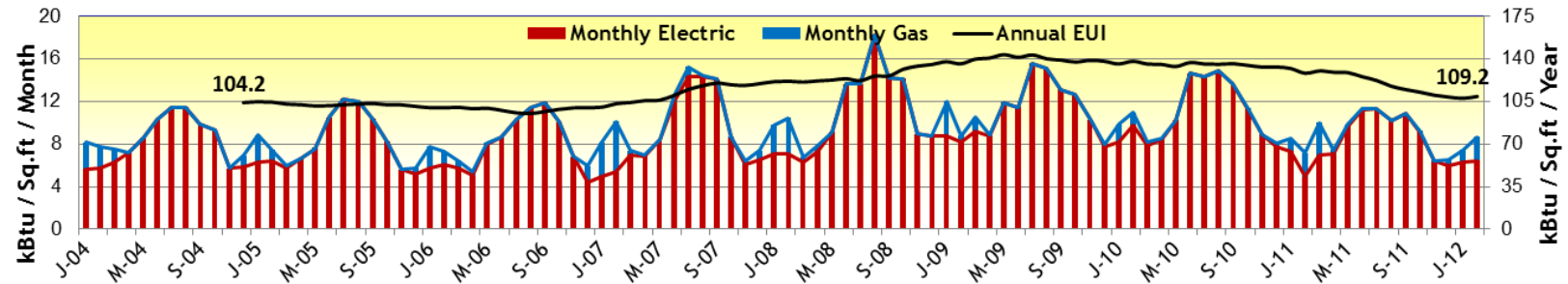
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2009	% Median
Energy Use (kBtu / sq.ft / yr)	67.7	N/A	N/A	N/A	N/A	N/A	73.7	75.1	68.3	93%	101%
Energy Cost (\$ / sq.ft / yr)	\$1.20	N/A	N/A	N/A	N/A	N/A	\$1.77	\$1.79	\$1.69	96%	141%
GHG Emissions (Tons CO ₂ / yr)	34	N/A	N/A	N/A	N/A	N/A	25	24	24	95%	69%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 1935. Installed 25W bulbs and added occupancy sensors. *Energy data prior to 2008 not available.	Est. Annual Savings (kWh)	4,424	Est. Project Cost (\$)	\$4,140
	Est. Annual Savings (\$)	\$575	Est. Simple Payback (Yrs)	7.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1978	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	4,000	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	City of Fallon	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	Account # 12.0550.0.1	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	N/A	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

ETR, ESD, Las Vegas Casual Labor Office, Las Vegas



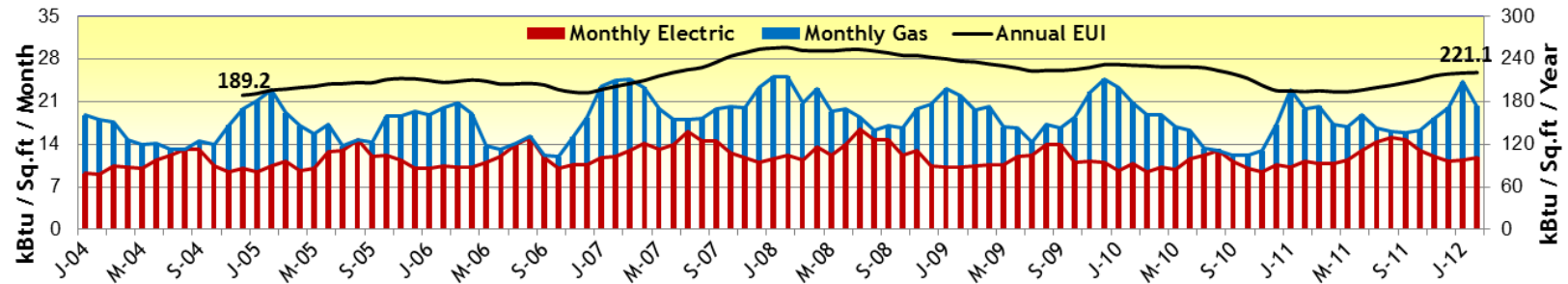
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	55.3	104.2	101.1	100.0	119.8	135.6	138.2	133.5	109.2	105%	198%
Energy Cost (\$ / sq.ft / yr)	\$1.76	\$2.98	\$2.93	\$3.04	\$3.64	\$4.01	\$4.26	\$4.06	\$3.05	102%	174%
GHG Emissions (Tons CO ₂ / yr)	20	40	39	39	45	52	54	53	42	104%	205%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0257. Replaced HID's and T12's with T8 lamps.	Est. Annual Savings (kWh)	24,746	Est. Project Cost (\$)	\$16,080
	Est. Annual Savings (\$)	\$3,216	Est. Simple Payback (Yrs)	5.0

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	69,177
Year Built	1975	Months Since Completion	10	Electricity (KWh)-After	61,400
Floor Area (sq. ft.)	2,400	GHGs (Tons CO ₂)-Before	40.2	Percent of Original	89%
Customer Number(s)	1021409	GHGs (Tons CO ₂)-After	35.6	Electricity (KWh)-Change	7,777
Premise Number(s)	1024681	Percent of Original	89%	Blended Rate of Electricity	\$0.10
Meter Number(s)	SD874001763	GHGs (Tons CO ₂)-Change	5	Electricity (\$)-Change	\$772

Energy Performance Benchmarking Analysis

ETR, ESD, State Administrative Office, Carson City



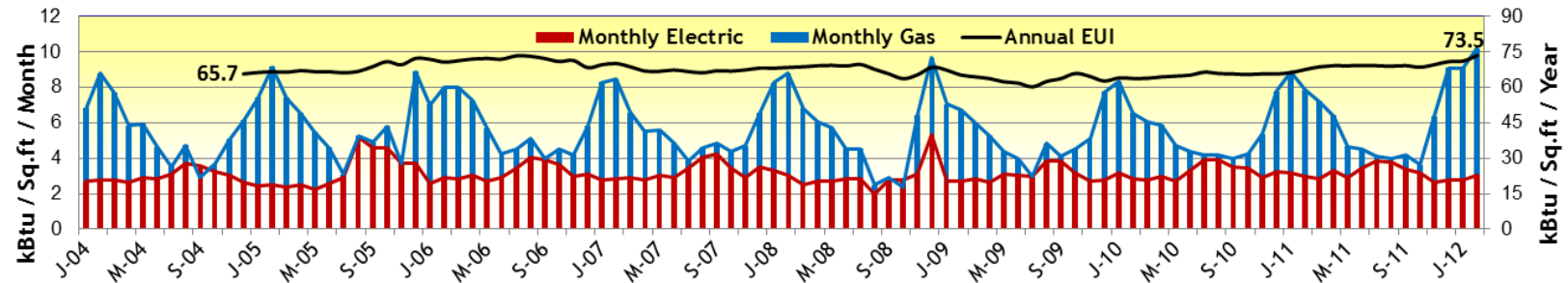
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBTu / sq.ft / yr)	75.2	189.2	212.3	192.6	254.1	242.5	232.3	195.8	221.1	117%	294%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$4.29	\$4.95	\$5.18	\$6.35	\$6.27	\$5.90	\$4.70	\$4.61	108%	323%
GHG Emissions (Tons CO ₂ / yr)	275	556	610	576	720	696	644	566	649	117%	236%
EPA Portfolio Manager Score	50	2	1	1	1	1	1	2	1	50%	2%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0398. Installed T8's, added occupancy sensors, replaced exterior metal halides.	Est. Annual Savings (kWh)	227,515	Est. Project Cost (\$)	\$92,304
	Est. Annual Savings (\$)	\$29,568	Est. Simple Payback (Yrs)	3.1

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1960	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	30,920	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	112287	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	295603	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	198798	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

HHS, CFS, B&G, Nevada Early Intervention Services, Reno



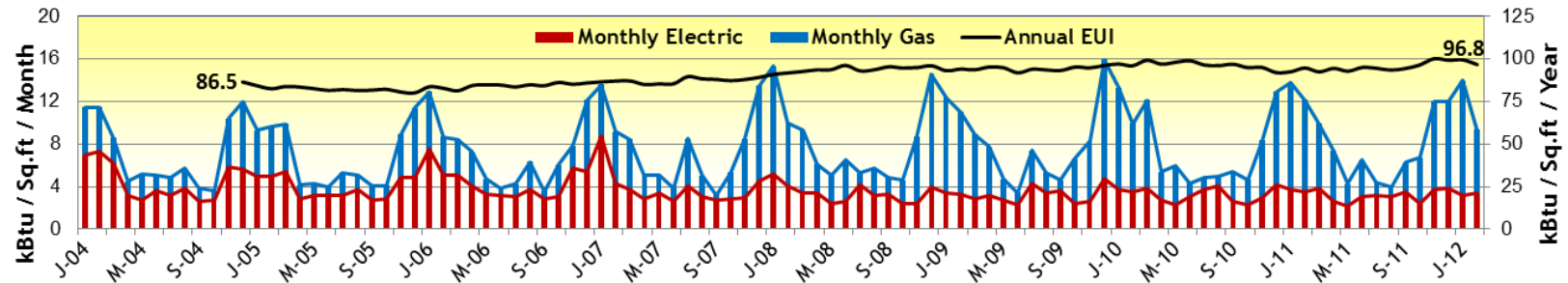
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	79.8	65.7	72.3	68.3	68.2	68.6	62.7	65.7	73.5	112%	92%
Energy Cost (\$ / sq.ft / yr)	\$1.71	\$1.48	\$1.77	\$1.79	\$1.77	\$1.72	\$1.72	\$1.61	\$1.41	95%	83%
GHG Emissions (Tons CO ₂ / yr)	216	72	80	118	119	116	110	117	124	171%	57%
EPA Portfolio Manager Score	50	76	71	71	70	73	76	70	68	89%	136%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0515. Replaced T12's with super T8's, relamped fixtures with 25W T8's and added occupancy sensors.	Est. Annual Savings (kWh)	32,977	Est. Project Cost (\$)	\$30,000
	Est. Annual Savings (\$)	\$4,286	Est. Simple Payback (Yrs)	7.0

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Dec-10	Electricity (KWh)-Before	225,175
Year Built	1980	Months Since Completion	14	Electricity (KWh)-After	256,416
Floor Area (sq. ft.)	19,800	GHGs (Tons CO ₂)-Before	125.6	Percent of Original	114%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	148.9	Electricity (KWh)-Change	-31,241
Premise Number(s)	258790	Percent of Original	119%	Blended Rate of Electricity	\$0.10
Meter Number(s)	153546	GHGs (Tons CO ₂)-Change	-23	Electricity (\$)-Change	-\$3,170

Energy Performance Benchmarking Analysis

HHS, CFS, Caliente Youth Center, Caliente



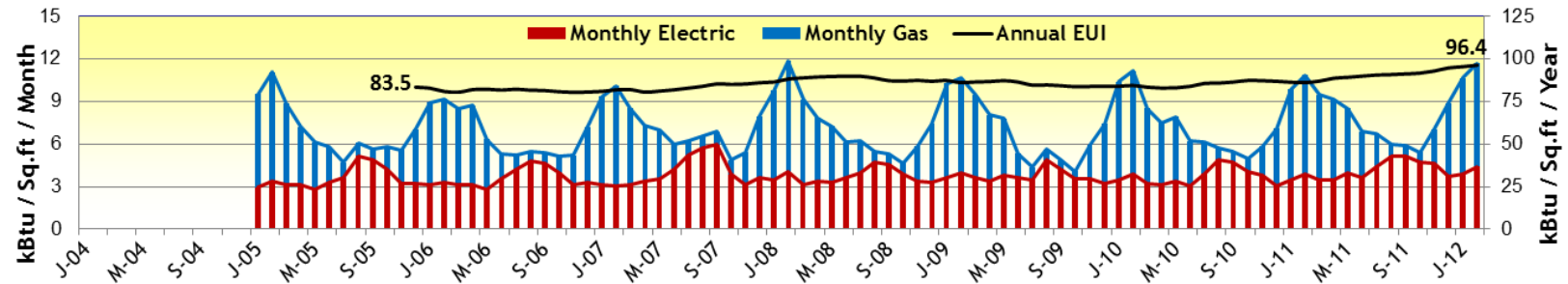
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	57.7	86.5	80.1	86.0	89.3	96.1	96.2	92.1	96.8	112%	168%
Energy Cost (\$ / sq.ft / yr)	\$1.06	\$2.04	\$1.94	\$2.17	\$2.27	\$2.50	\$2.23	\$2.23	\$2.38	116%	225%
GHG Emissions (Tons CO ₂ / yr)	706	943	853	926	903	929	918	891	915	97%	130%
EPA Portfolio Manager Score	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg #'s 0199, 0211-0221, 0290, 0292, 2001, 2943. Bldg #'s 0290, 2168, 3071 included in sq.ft. *Pre-2009 data available.	Est. Annual Savings (kWh)	266,486	Est. Project Cost (\$)	\$111,638
	Est. Annual Savings (\$)	\$26,646	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Social/Meeting	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1962	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	122,322	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	Caliente Public Utilities	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	Customer # 77000000	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	N/A	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

HHS, CFS, Children's Behavioral Services, Reno



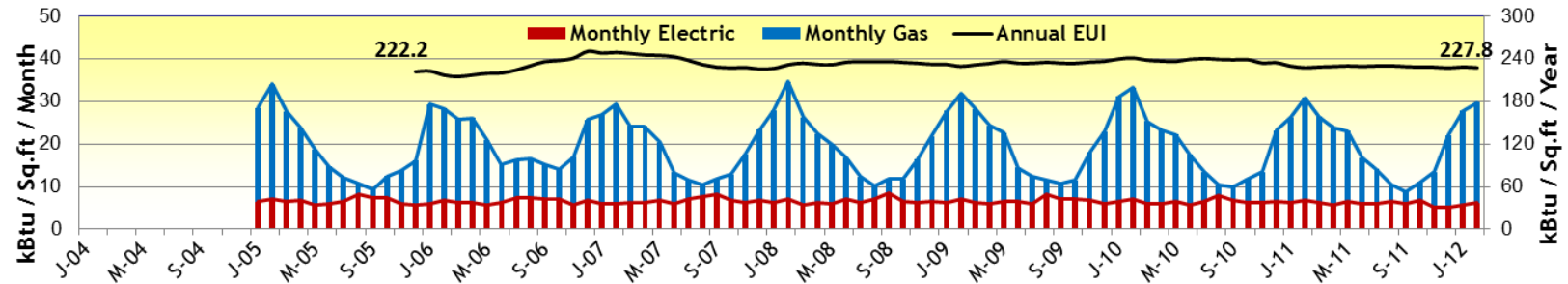
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBtu / sq.ft / yr)	79.8	N/A	83.5	80.6	86.1	86.9	83.9	87.0	96.4	115%	121%
Energy Cost (\$ / sq.ft / yr)	\$1.71	N/A	\$1.83	\$2.04	\$2.17	\$2.15	\$2.20	\$1.97	\$1.83	100%	107%
GHG Emissions (Tons CO ₂ / yr)	275	N/A	179	175	190	186	182	186	208	116%	76%
EPA Portfolio Manager Score	50	N/A	61	63	55	58	59	57	47	77%	94%

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 1466-1468. *Energy data prior 2005 not available.	Est. Annual Savings (kWh)	60,024	Est. Project Cost (\$)	\$25,210
	Est. Annual Savings (\$)	\$6,002	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	May-12	Electricity (KWh)-Before	N/A
Year Built	1977	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	25,210	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	341139	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	258789	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	N/A	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

HHS, MH/DS, Lakes Crossing Center, Sparks



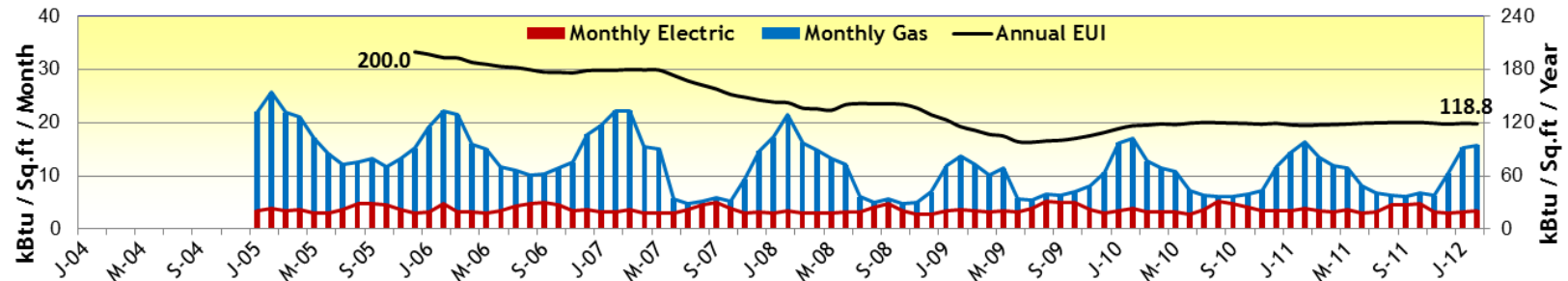
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBtu / sq.ft / yr)	226.7	N/A	222.2	250.8	225.8	232.6	236.8	234.8	227.8	102%	100%
Energy Cost (\$ / sq.ft / yr)	\$3.21	N/A	\$3.67	\$4.76	\$4.39	\$4.44	\$4.63	\$4.05	\$3.05	83%	95%
GHG Emissions (Tons CO ₂ / yr)	872	N/A	599	652	607	618	627	620	593	99%	68%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Replaced T12's with T8's, metal halides with T5's, and incandescents with CFLs at bldg # 0342. . *Energy data prior to 2005 not available.	Est. Annual Savings (kWh)	39,312	Est. Project Cost (\$)	\$18,084
	Est. Annual Savings (\$)	\$5,109	Est. Simple Payback (Yrs)	3.5

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Inpatient Health Care	Project Completion Date	Jul-11	Electricity (KWh)-Before	502,032
Year Built	1974	Months Since Completion	7	Electricity (KWh)-After	436,320
Floor Area (sq. ft.)	35,804	GHGs (Tons CO ₂)-Before	360.6	Percent of Original	87%
Customer Number(s)	793743	GHGs (Tons CO ₂)-After	327.1	Electricity (KWh)-Change	65,712
Premise Number(s)	507641	Percent of Original	91%	Blended Rate of Electricity	\$0.09
Meter Number(s)	200464	GHGs (Tons CO ₂)-Change	34	Electricity (\$)-Change	\$5,950

Energy Performance Benchmarking Analysis

HHS, MH/DS, NNAMHS, Sparks



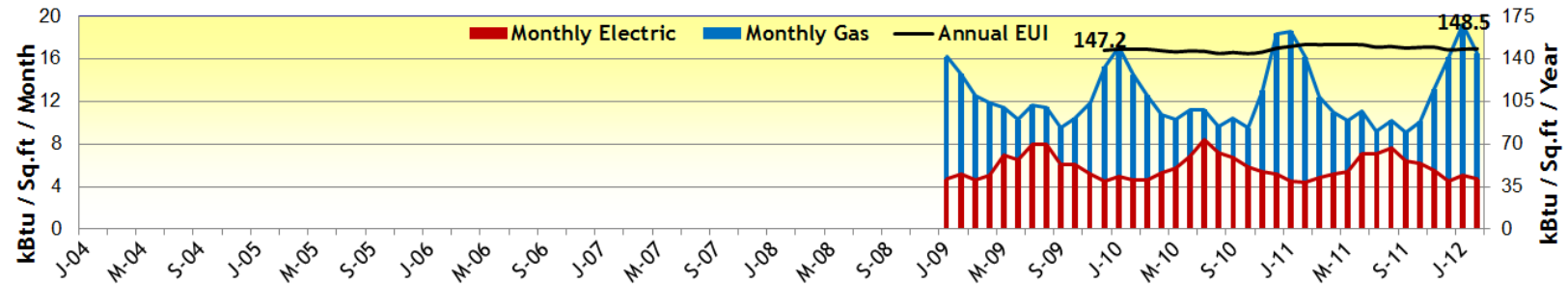
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks								Current Benchmarks	
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBtu / sq.ft / yr)	226.7	N/A	200.0	179.0	145.7	128.8	109.0	119.4	118.8	59%	52%
Energy Cost (\$ / sq.ft / yr)	\$3.21	N/A	\$2.72	\$3.07	\$2.62	\$2.37	\$2.41	\$2.21	\$1.79	66%	56%
GHG Emissions (Tons CO ₂ / yr)	5,488	N/A	3,872	3,577	2,990	2,687	1,949	2,052	2,028	52%	37%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg #'s 0326-0328, 0330-0331, 0333-0334, 0340, 0347-0348, 0352-0353, 1958. Recommissioned bldg # 2449. Bldg #'s 0329, 0339, 0343, 0976, 2725 w/ sq.ft.	Est. Annual Savings (kWh)	363,883	Est. Project Cost (\$)	\$158,723
	Est. Annual Savings (\$)	\$46,973	Est. Simple Payback (Yrs)	3.4

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Inpatient Health Care	Project Completion Date	Jun-11	Electricity (KWh)-Before	2,438,945
Year Built	N/A	Months Since Completion	8	Electricity (KWh)-After	2,001,108
Floor Area (sq. ft.)	225,336	GHGs (Tons CO ₂)-Before	1804.3	Percent of Original	82%
Customer Number(s)	163806	GHGs (Tons CO ₂)-After	1305.4	Electricity (KWh)-Change	437,837
Premise Number(s)	259464	Percent of Original	72%	Blended Rate of Electricity	\$0.10
Meter Number(s)	259464	GHGs (Tons CO ₂)-Change	499	Electricity (\$)-Change	\$43,288

Energy Performance Benchmarking Analysis

HHS, MH/DS, SNAMHS, Rawson-Neal Hospital, Las Vegas



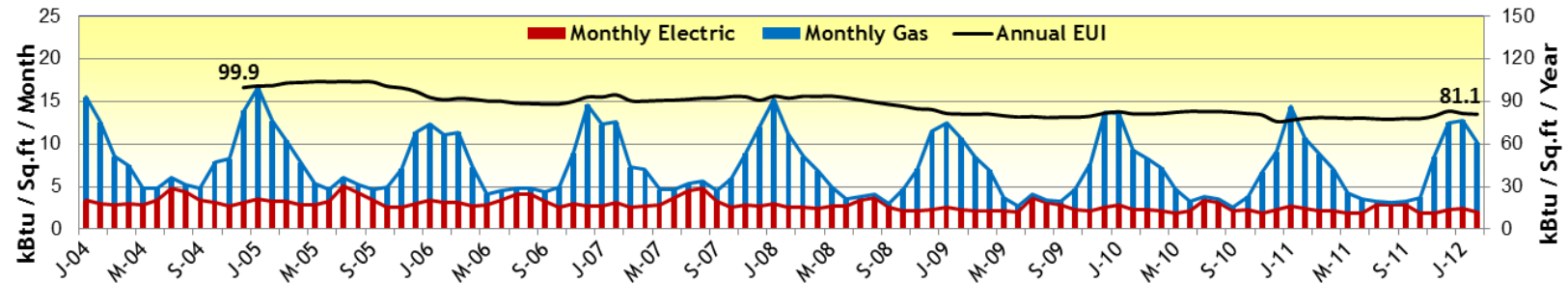
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2009	% Median
Energy Use (kBtu / sq.ft / yr)	200.2	N/A	N/A	N/A	N/A	N/A	147.2	148.8	148.5	101%	74%
Energy Cost (\$ / sq.ft / yr)	\$4.10	N/A	N/A	N/A	N/A	N/A	\$3.26	\$2.90	\$2.54	78%	62%
GHG Emissions (Tons CO ₂ / yr)	2,844	N/A	N/A	N/A	N/A	N/A	1,860	1,874	1,855	100%	65%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Recommissioned building #'s 2508, 2509, 2510, 2538. *Energy data prior to 2009 not available.	Est. Annual Savings (kWh)	8,775	Est. Project Cost (\$)	\$9,040
	Est. Annual Savings (\$)	\$5,000	Est. Simple Payback (Yrs)	1.8

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Inpatient Health Care	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	2006	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	117,000	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	1218093	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	2096412	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	BTD42DOO0236	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

HHS, MH/DS, SRC ICF Bed Homes / Administration / Maintenance Shops, Sparks



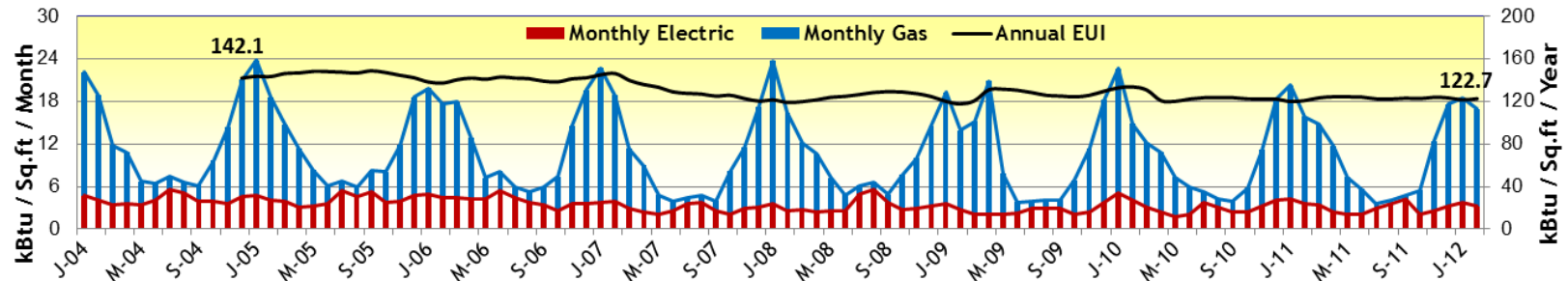
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	94.5	99.9	97.2	93.3	90.9	84.4	81.8	76.0	81.1	81%	86%
Energy Cost (\$ / sq.ft / yr)	\$2.13	\$1.72	\$1.83	\$2.00	\$1.98	\$1.79	\$1.75	\$1.47	\$1.18	69%	55%
GHG Emissions (Tons CO ₂ / yr)	548	324	317	304	299	270	258	242	249	77%	45%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 0322-0325, 0345, 0517-0518, 2691. Replaced T12's with high-output T8's and added occupancy sensors.	Est. Annual Savings (kWh)	103,537	Est. Project Cost (\$)	\$35,467
	Est. Annual Savings (\$)	\$13,018	Est. Simple Payback (Yrs)	2.7

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Health Clinic	Project Completion Date	Jun-11	Electricity (KWh)-Before	297,741
Year Built	N/A	Months Since Completion	8	Electricity (KWh)-After	231,840
Floor Area (sq. ft.)	41,650	GHGs (Tons CO ₂)-Before	204.6	Percent of Original	78%
Customer Number(s)	145786	GHGs (Tons CO ₂)-After	176.0	Electricity (KWh)-Change	65,901
Premise Number(s)	259465	Percent of Original	86%	Blended Rate of Electricity	\$0.10
Meter Number(s)	172059	GHGs (Tons CO ₂)-Change	29	Electricity (\$)-Change	\$6,716

Energy Performance Benchmarking Analysis

HHS, MH/DS, SRC ICF Dual Diagnosis, Sparks



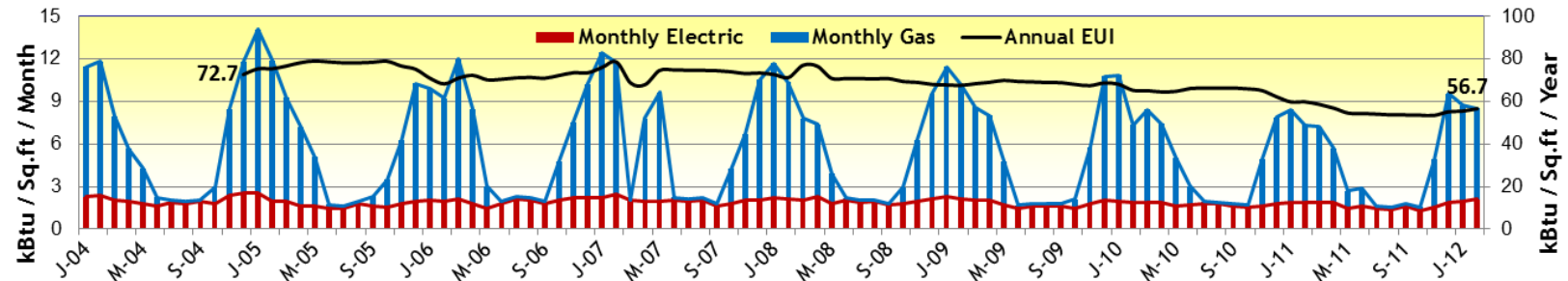
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	94.5	142.1	142.4	142.4	120.5	124.7	129.6	122.4	122.7	86%	130%
Energy Cost (\$ / sq.ft / yr)	\$2.13	\$2.56	\$2.79	\$3.11	\$2.51	\$2.62	\$2.48	\$2.23	\$1.79	70%	84%
GHG Emissions (Tons CO ₂ / yr)	96	78	78	77	63	66	65	64	64	82%	66%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 0516, 0320, 1955. Replaced T12's with high-output T8's and added occupancy sensors.	Est. Annual Savings (kWh)	12,306	Est. Project Cost (\$)	\$5,584
	Est. Annual Savings (\$)	\$1,426	Est. Simple Payback (Yrs)	3.9

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Health Clinic	Project Completion Date	Jun-11	Electricity (KWh)-Before	63,954
Year Built	N/A	Months Since Completion	8	Electricity (KWh)-After	54,400
Floor Area (sq. ft.)	7,284	GHGs (Tons CO ₂)-Before	49.5	Percent of Original	85%
Customer Number(s)	145786; 145786; 145786	GHGs (Tons CO ₂)-After	43.7	Electricity (KWh)-Change	9,554
Premise Number(s)	128798; 133319; 133613	Percent of Original	88%	Blended Rate of Electricity	\$0.10
Meter Number(s)	161361; 64280; 88635	GHGs (Tons CO ₂)-Change	6	Electricity (\$)-Change	\$994

Energy Performance Benchmarking Analysis

Military, NNG, Army Aviation Support Facility, Stead



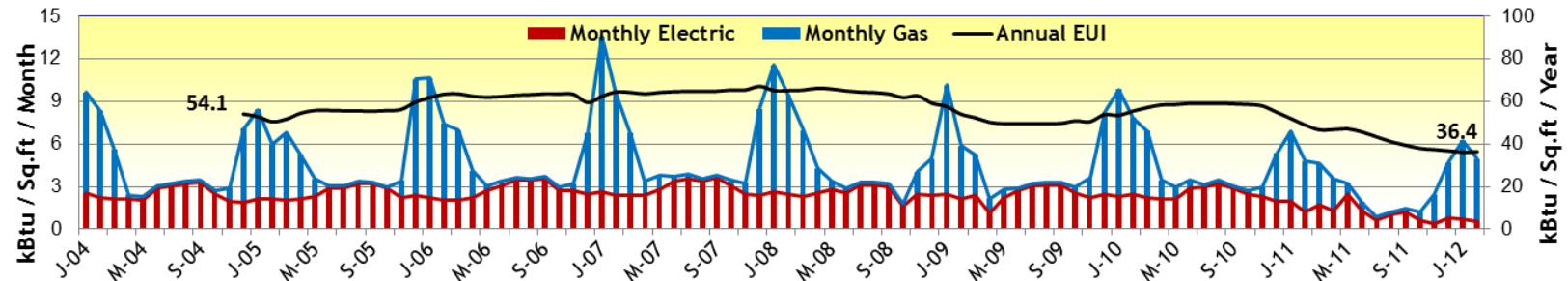
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBTu / sq.ft / yr)	44.8	72.7	75.2	73.5	73.4	68.1	68.7	62.3	56.7	78%	127%
Energy Cost (\$ / sq.ft / yr)	\$0.90	\$1.13	\$1.20	\$1.41	\$1.43	\$1.35	\$1.33	\$1.11	\$0.82	72%	91%
GHG Emissions (Tons CO ₂ / yr)	441	444	440	462	464	438	430	397	365	82%	83%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Retrofitted 400W metal halides, T12's, and exit lights at bldg # 2045. Building #'s 2046-2055 included in sq.ft.	Est. Annual Savings (kWh)	294,926	Est. Project Cost (\$)	\$105,600
	Est. Annual Savings (\$)	\$38,329	Est. Simple Payback (Yrs)	2.8

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Vehicle Storage/Maint.	Project Completion Date	Jun-11	Electricity (KWh)-Before	385,418
Year Built	1984	Months Since Completion	8	Electricity (KWh)-After	331,584
Floor Area (sq. ft.)	85,936	GHGs (Tons CO ₂)-Before	293.8	Percent of Original	86%
Customer Number(s)	140336	GHGs (Tons CO ₂)-After	244.3	Electricity (KWh)-Change	53,834
Premise Number(s)	260168	Percent of Original	83%	Blended Rate of Electricity	\$0.10
Meter Number(s)	170109; 203218	GHGs (Tons CO ₂)-Change	49	Electricity (\$)-Change	\$5,211

Energy Performance Benchmarking Analysis

Military, NNG, Clark County Armory / CSMS / OMS Building, North Las Vegas



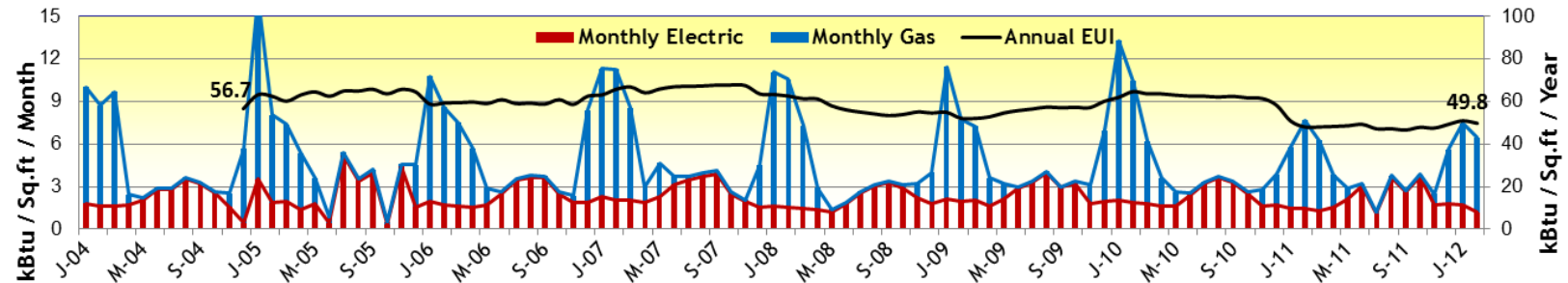
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	55.4	54.1	59.7	59.6	67.2	59.1	53.8	55.0	36.4	67%	66%
Energy Cost (\$ / sq.ft / yr)	\$1.85	\$0.98	\$1.12	\$1.30	\$1.36	\$1.24	\$1.18	\$1.11	\$0.66	67%	36%
GHG Emissions (Tons CO ₂ / yr)	814	663	702	728	794	705	660	669	357	54%	44%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg #'s 0036, 0977-0978, 0995, 1960-1961, 1650. *Electric bills reflect net metering and on-site generation by 2011.	Est. Annual Savings (kWh)	172,526	Est. Project Cost (\$)	\$153,637
	Est. Annual Savings (\$)	\$22,422	Est. Simple Payback (Yrs)	6.9

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Social/Meeting	Project Completion Date	Apr-11	Electricity (KWh)-Before	823,713
Year Built	1997	Months Since Completion	10	Electricity (KWh)-After	298,533
Floor Area (sq. ft.)	105,779	GHGs (Tons CO ₂)-Before	587.8	Percent of Original	36%
Customer Number(s)	1516186	GHGs (Tons CO ₂)-After	275.0	Electricity (KWh)-Change	525,180
Premise Number(s)	1647268	Percent of Original	47%	Blended Rate of Electricity	\$0.13
Meter Number(s)	501055; 000017	GHGs (Tons CO ₂)-Change	313	Electricity (\$)-Change	\$68,539

Energy Performance Benchmarking Analysis

Military, NNG, Henderson Armory, Henderson



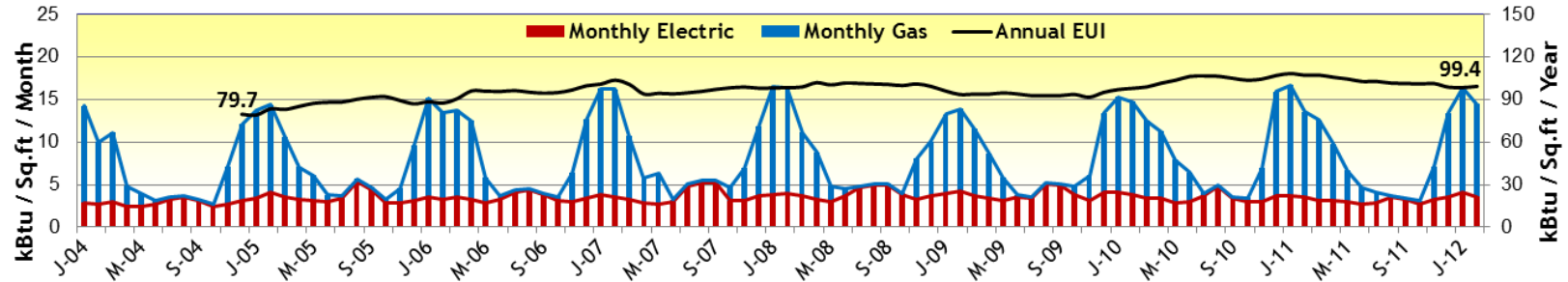
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	60.6	56.7	64.6	62.6	63.6	54.6	60.1	58.4	49.8	88%	82%
Energy Cost (\$ / sq.ft / yr)	\$2.12	\$0.96	\$1.18	\$1.23	\$1.32	\$1.07	\$1.24	\$1.08	\$0.87	91%	41%
GHG Emissions (Tons CO ₂ / yr)	212	109	125	120	125	105	119	114	100	92%	47%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 0260-0264. Replaced high bay metal halides and added occupancy sensors.	Est. Annual Savings (kWh)	27,771	Est. Project Cost (\$)	\$18,557
	Est. Annual Savings (\$)	\$3,609	Est. Simple Payback (Yrs)	5.1

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Social/Meeting	Project Completion Date	Apr-11	Electricity (KWh)-Before	170,388
Year Built	1971	Months Since Completion	10	Electricity (KWh)-After	157,702
Floor Area (sq. ft.)	23,729	GHGs (Tons CO ₂)-Before	95.8	Percent of Original	93%
Customer Number(s)	1207683; 1207684	GHGs (Tons CO ₂)-After	83.3	Electricity (KWh)-Change	12,686
Premise Number(s)	1145138; 1145139	Percent of Original	87%	Blended Rate of Electricity	\$0.09
Meter Number(s)	414000127; 474000219	GHGs (Tons CO ₂)-Change	13	Electricity (\$)-Change	\$1,186

Energy Performance Benchmarking Analysis

Military, NNG, Plumb Lane Readiness Center, Reno



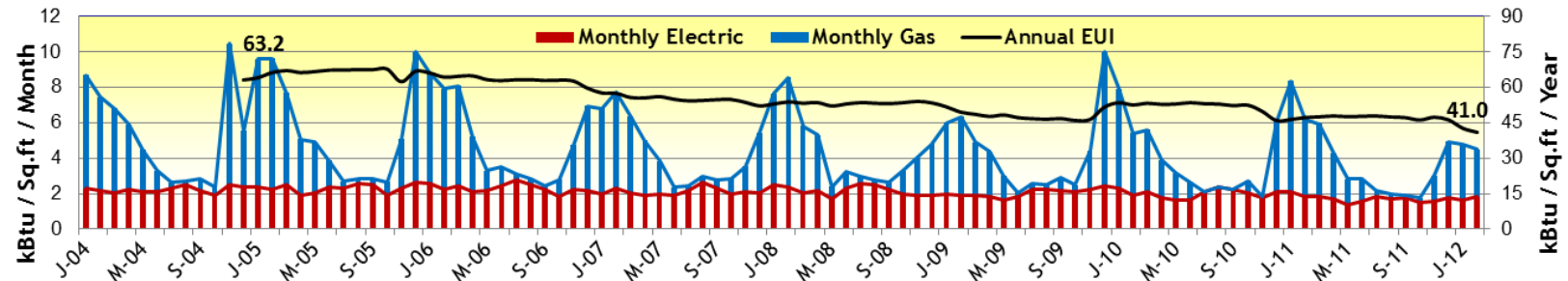
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	66.9	79.7	87.1	99.8	98.1	99.3	95.1	107.0	99.4	125%	149%
Energy Cost (\$ / sq.ft / yr)	\$1.27	\$1.50	\$1.87	\$2.25	\$2.27	\$2.31	\$2.32	\$2.11	\$1.61	107%	127%
GHG Emissions (Tons CO ₂ / yr)	93	92	105	114	115	118	115	120	111	121%	120%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 2042-2044.	Est. Annual Savings (kWh)	34,460	Est. Project Cost (\$)	\$14,473
	Est. Annual Savings (\$)	\$3,446	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Social/Meeting	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1965	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	14,473	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	284611	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	220478	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	125619; 198988; 203749	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

Military, NNG, Washoe County Training Center, Stead



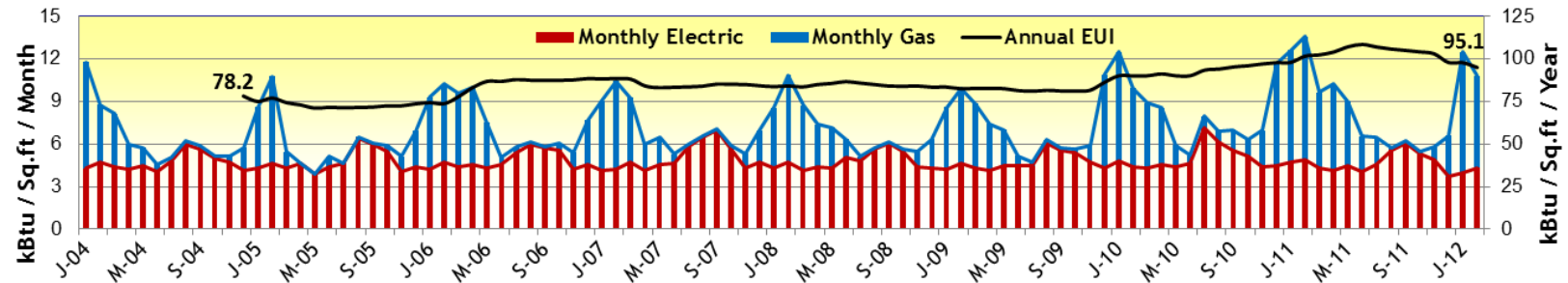
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	66.9	63.2	66.9	59.6	52.2	53.4	51.6	46.0	41.0	65%	61%
Energy Cost (\$ / sq.ft / yr)	\$1.27	\$1.09	\$1.24	\$1.34	\$1.19	\$1.26	\$1.22	\$1.02	\$0.74	68%	58%
GHG Emissions (Tons CO ₂ / yr)	406	317	333	309	274	282	269	248	217	68%	53%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Replaced 400W metal halides with high-bay T5s, delamped T8 fixtures, and added occupancy sensors at building # 2041.	Est. Annual Savings (kWh)	189,672	Est. Project Cost (\$)	\$202,665
	Est. Annual Savings (\$)	\$24,650	Est. Simple Payback (Yrs)	8.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Social/Meeting	Project Completion Date	Apr-11	Electricity (KWh)-Before	404,712
Year Built	1997	Months Since Completion	10	Electricity (KWh)-After	306,800
Floor Area (sq. ft.)	63,358	GHGs (Tons CO ₂)-Before	235.2	Percent of Original	76%
Customer Number(s)	175989	GHGs (Tons CO ₂)-After	168.1	Electricity (KWh)-Change	97,912
Premise Number(s)	148968	Percent of Original	71%	Blended Rate of Electricity	\$0.10
Meter Number(s)	195650	GHGs (Tons CO ₂)-Change	67	Electricity (\$)-Change	\$9,717

Energy Performance Benchmarking Analysis

MtrVeh, B&G, Department of Motor Vehicles, Reno



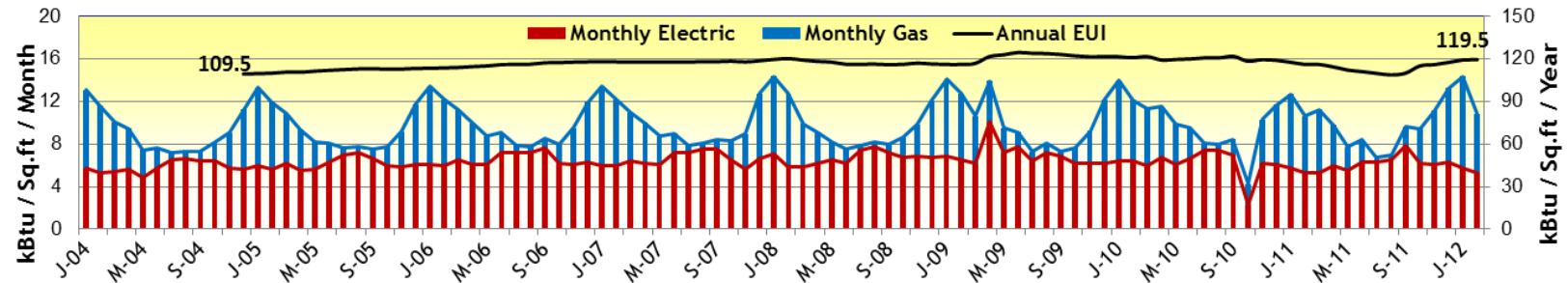
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	79.8	78.2	73.7	88.5	84.3	83.5	86.2	97.9	95.1	122%	119%
Energy Cost (\$ / sq.ft / yr)	\$1.71	\$1.87	\$1.95	\$2.39	\$2.38	\$2.33	\$2.44	\$2.26	\$1.88	101%	110%
GHG Emissions (Tons CO ₂ / yr)	333	230	223	249	246	240	242	267	254	111%	76%
EPA Portfolio Manager Score	50	49	52	45	45	48	47	38	44	90%	88%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0272. Replaced T12's with high-output T8's.	Est. Annual Savings (kWh)	15,822	Est. Project Cost (\$)	\$15,444
	Est. Annual Savings (\$)	\$2,056	Est. Simple Payback (Yrs)	7.5

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	434,643
Year Built	1975	Months Since Completion	10	Electricity (KWh)-After	412,880
Floor Area (sq. ft.)	30,000	GHGs (Tons CO ₂)-Before	202.8	Percent of Original	95%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	206.7	Electricity (KWh)-Change	21,763
Premise Number(s)	258851	Percent of Original	102%	Blended Rate of Electricity	\$0.10
Meter Number(s)	167870	GHGs (Tons CO ₂)-Change	-4	Electricity (\$)-Change	\$2,144

Energy Performance Benchmarking Analysis

MtrVeh, B&G, DMV / Public Safety, Carson City



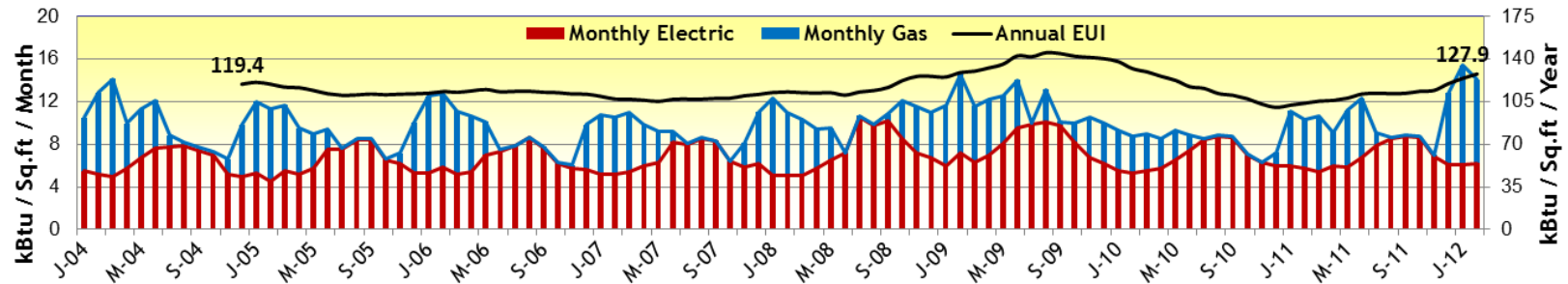
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	109.5	113.4	118.1	118.8	116.5	121.7	119.1	119.5	109%	159%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$2.43	\$2.75	\$3.12	\$3.18	\$3.19	\$3.59	\$2.96	\$2.42	99%	170%
GHG Emissions (Tons CO ₂ / yr)	994	1,131	1,181	1,241	1,248	1,244	1,298	1,220	1,215	107%	122%
EPA Portfolio Manager Score	50	43	39	35	34	34	30	36	37	86%	74%

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 0209-0210, 1990, 2037, 2458-2459, 2965. Installed high-bay T5's and T8's and added occupancy sensors.	Est. Annual Savings (kWh)	144,089	Est. Project Cost (\$)	\$137,412
	Est. Annual Savings (\$)	\$18,726	Est. Simple Payback (Yrs)	7.3

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Feb-11	Electricity (KWh)-Before	2,517,323
Year Built	1991	Months Since Completion	12	Electricity (KWh)-After	2,402,861
Floor Area (sq. ft.)	111,666	GHGs (Tons CO ₂)-Before	1220.3	Percent of Original	95%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	1215.0	Electricity (KWh)-Change	114,462
Premise Number(s)	295562	Percent of Original	100%	Blended Rate of Electricity	\$0.09
Meter Number(s)	200724; C1295562	GHGs (Tons CO ₂)-Change	5	Electricity (\$)-Change	\$10,553

Energy Performance Benchmarking Analysis

MtrVeh, B&G, DMV Flamingo Office, Las Vegas



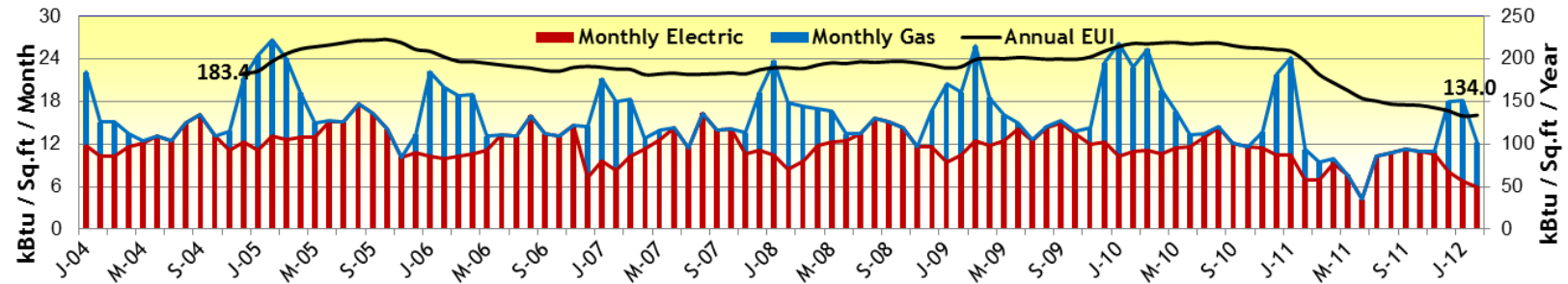
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft. / yr)	55.3	119.4	111.5	111.2	111.1	125.9	140.5	100.4	127.9	107%	231%
Energy Cost (\$ / sq.ft. / yr)	\$1.76	\$2.48	\$2.42	\$2.58	\$2.71	\$2.96	\$3.29	\$2.60	\$2.60	105%	148%
GHG Emissions (Tons CO ₂ / yr)	269	478	465	469	476	531	582	464	517	108%	192%
EPA Portfolio Manager Score	50	26	26	27	27	18	12	29	20	77%	40%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0338. Replaced T12's with high-output T8's and added occupancy sensors.	Est. Annual Savings (kWh)	106,415	Est. Project Cost (\$)	\$79,572
	Est. Annual Savings (\$)	\$13,830	Est. Simple Payback (Yrs)	5.8

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	659,238
Year Built	1995	Months Since Completion	10	Electricity (KWh)-After	667,087
Floor Area (sq. ft.)	31,800	GHGs (Tons CO ₂)-Before	418.4	Percent of Original	101%
Customer Number(s)	1028318	GHGs (Tons CO ₂)-After	442.6	Electricity (KWh)-Change	-7,849
Premise Number(s)	1550829	Percent of Original	106%	Blended Rate of Electricity	\$0.09
Meter Number(s)	PTD42D001992	GHGs (Tons CO ₂)-Change	-24	Electricity (\$)-Change	-\$721

Energy Performance Benchmarking Analysis

MtrVeh, B&G, DMV Registration / Inspection Center, Las Vegas



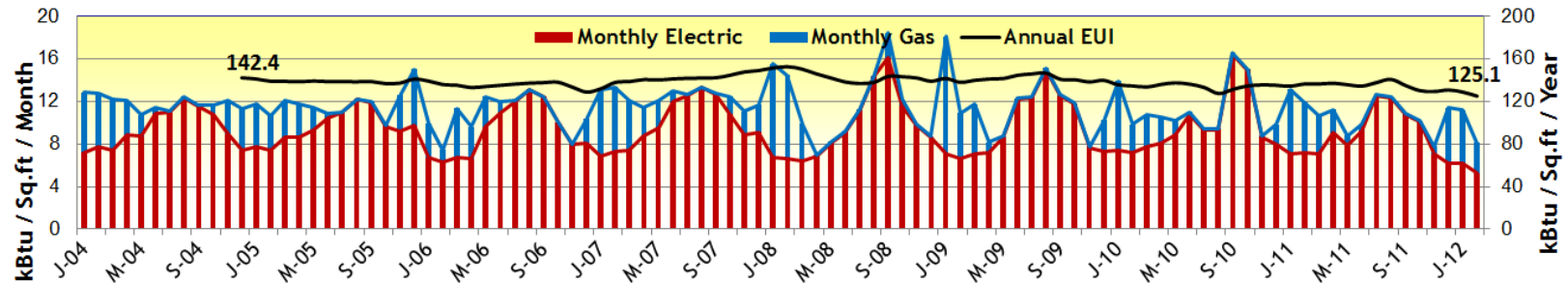
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	55.3	183.4	211.3	191.3	187.4	192.8	209.1	211.0	134.0	73%	242%
Energy Cost (\$ / sq.ft / yr)	\$1.76	\$4.43	\$4.92	\$4.69	\$4.79	\$4.75	\$5.02	\$4.70	\$3.16	71%	180%
GHG Emissions (Tons CO ₂ / yr)	221	700	776	692	690	705	738	706	493	70%	223%
EPA Portfolio Manager Score	50	1	1	1	2	1	1	1	9	900%	18%

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 0255, 2062.	Est. Annual Savings (kWh)	64,185	Est. Project Cost (\$)	\$26,958
	Est. Annual Savings (\$)	\$6,420	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Dec-11	Electricity (KWh)-Before	154,620
Year Built	1976	Months Since Completion	2	Electricity (KWh)-After	97,200
Floor Area (sq. ft.)	26,120	GHGs (Tons CO ₂)-Before	118.5	Percent of Original	63%
Customer Number(s)	1028318	GHGs (Tons CO ₂)-After	80.0	Electricity (KWh)-Change	57,420
Premise Number(s)	1078926	Percent of Original	68%	Blended Rate of Electricity	\$0.09
Meter Number(s)	PSD213000692	GHGs (Tons CO ₂)-Change	38	Electricity (\$)-Change	\$5,307

Energy Performance Benchmarking Analysis

MtrVeh, B&G, Henderson DMV Office, Henderson



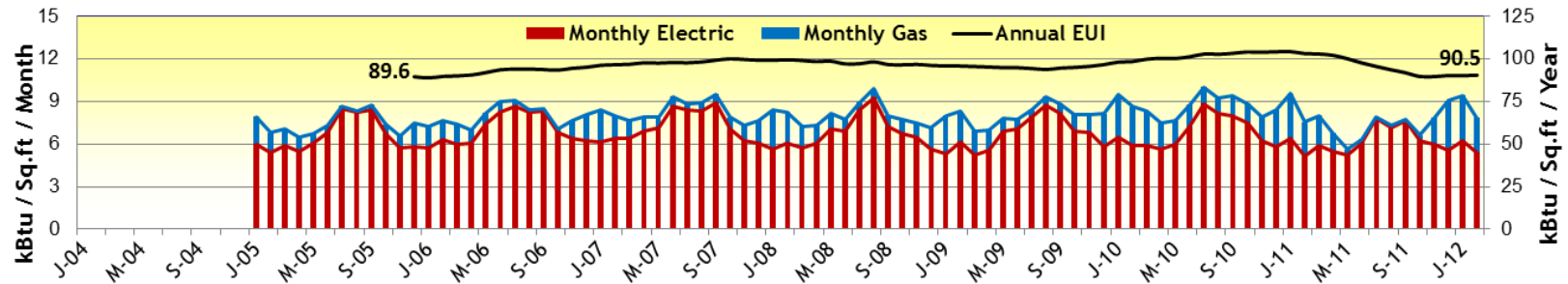
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	55.3	142.4	141.2	129.0	149.2	139.2	140.0	135.3	125.1	88%	226%
Energy Cost (\$ / sq.ft / yr)	\$1.68	\$3.36	\$3.39	\$3.42	\$3.88	\$3.59	\$3.73	\$3.44	\$2.59	77%	154%
GHG Emissions (Tons CO ₂ / yr)	164	290	293	274	306	290	291	288	261	90%	159%
EPA Portfolio Manager Score	50	5	4	6	4	5	5	5	8	160%	16%

Project Notes	Project Savings Analysis			
Retrofitted lighting, installed 30KW PV, and replaced air-cooled HVAC unit with water-cooled system at building # 2000.	Est. Annual Savings (kWh)	95,446	Est. Project Cost (\$)	\$745,416
	Est. Annual Savings (\$)	\$13,699	Est. Simple Payback (Yrs)	54.4

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	586,117
Year Built	1997	Months Since Completion	10	Electricity (KWh)-After	512,633
Floor Area (sq. ft.)	20,000	GHGs (Tons CO ₂)-Before	248.6	Percent of Original	87%
Customer Number(s)	1028318	GHGs (Tons CO ₂)-After	217.5	Electricity (KWh)-Change	73,484
Premise Number(s)	1690439	Percent of Original	87%	Blended Rate of Electricity	\$0.08
Meter Number(s)	PTN62D000004	GHGs (Tons CO ₂)-Change	31	Electricity (\$)-Change	\$5,883

Energy Performance Benchmarking Analysis

NSHE, DRI, Southern Nevada Science Center, Las Vegas



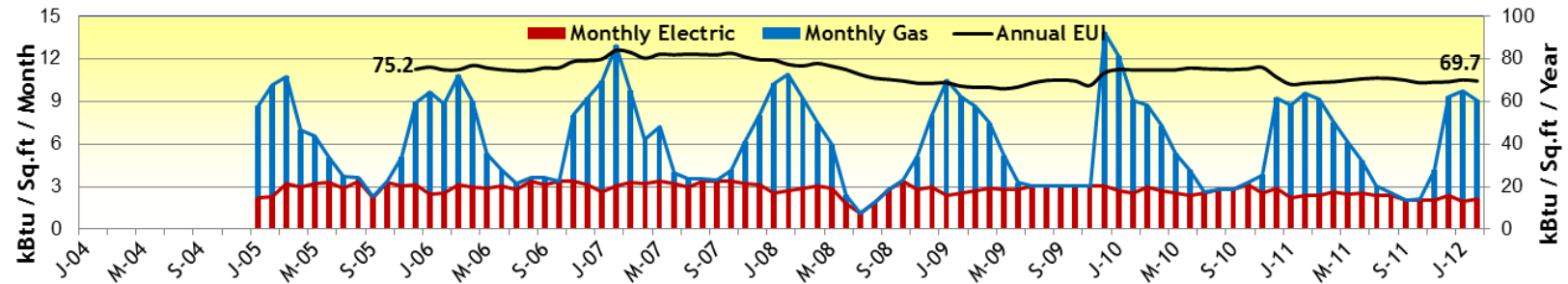
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBtu / sq.ft. / yr)	60.2	N/A	89.6	95.2	99.3	96.3	96.7	104.2	90.5	101%	150%
Energy Cost (\$ / sq.ft. / yr)	\$2.18	N/A	\$2.24	\$2.51	\$2.69	\$2.55	\$2.59	\$2.59	\$2.12	94%	97%
GHG Emissions (Tons CO ₂ / yr)	1,068	N/A	1,524	1,629	1,678	1,594	1,586	1,647	1,476	97%	138%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0379. Included Rogers Science & Technology in sq.ft. *Energy data prior to 2005 not available.	Est. Annual Savings (kWh)	140,108	Est. Project Cost (\$)	\$112,088
	Est. Annual Savings (\$)	\$18,209	Est. Simple Payback (Yrs)	6.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Library/Museum	Project Completion Date	Apr-11	Electricity (KWh)-Before	2,284,673
Year Built	1991	Months Since Completion	10	Electricity (KWh)-After	2,053,760
Floor Area (sq. ft.)	110,706	GHGs (Tons CO ₂)-Before	1374.4	Percent of Original	90%
Customer Number(s)	1008009; 1008009; 1411991	GHGs (Tons CO ₂)-After	1245.3	Electricity (KWh)-Change	230,913
Premise Number(s)	1466845; 1921210; 1466645	Percent of Original	91%	Blended Rate of Electricity	\$0.09
Meter Number(s)	000415; CI2221; 500045	GHGs (Tons CO ₂)-Change	129	Electricity (\$)-Change	\$20,821

Energy Performance Benchmarking Analysis

NSHE, TMCC, Edison Way Technology Center, Reno



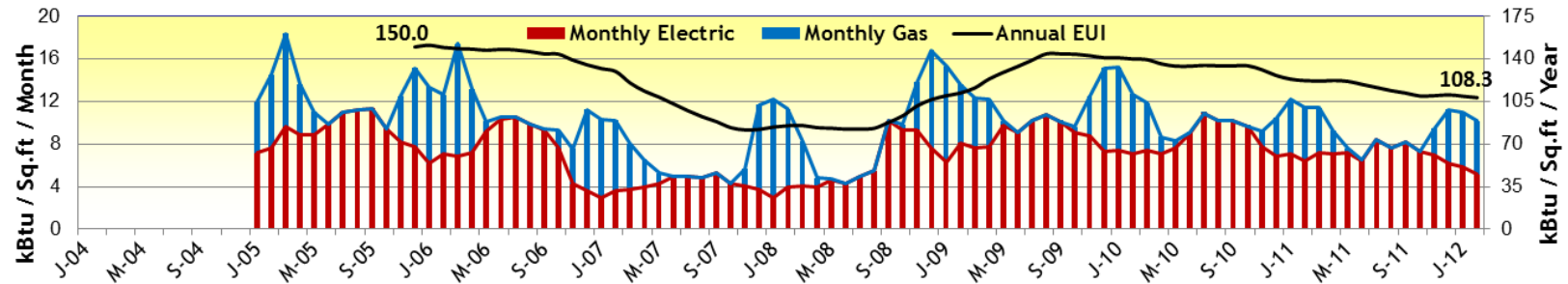
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBtu / sq.ft / yr)	79.8	N/A	75.2	79.3	79.6	68.6	73.4	71.6	69.7	93%	87%
Energy Cost (\$ / sq.ft / yr)	\$1.71	N/A	\$1.52	\$1.81	\$1.83	\$1.56	\$1.53	\$1.49	\$1.14	75%	67%
GHG Emissions (Tons CO ₂ / yr)	907	N/A	512	536	549	462	500	484	449	88%	50%
EPA Portfolio Manager Score	50	N/A	83	82	80	89	85	86	90	108%	180%

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 1415. Replaced T12's with T8's and added occupancy sensors. *Energy data prior to 2005 not available.	Est. Annual Savings (kWh)	100,729	Est. Project Cost (\$)	\$560,208
	Est. Annual Savings (\$)	\$15,859	Est. Simple Payback (Yrs)	35.3

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Jul-11	Electricity (KWh)-Before	491,730
Year Built	1977	Months Since Completion	7	Electricity (KWh)-After	367,488
Floor Area (sq. ft.)	83,189	GHGs (Tons CO ₂)-Before	300.4	Percent of Original	75%
Customer Number(s)	342046; 342046	GHGs (Tons CO ₂)-After	249.9	Electricity (KWh)-Change	124,242
Premise Number(s)	259537; 542919	Percent of Original	83%	Blended Rate of Electricity	\$0.10
Meter Number(s)	N/A	GHGs (Tons CO ₂)-Change	50	Electricity (\$)-Change	\$13,005

Energy Performance Benchmarking Analysis

NSHE, UNLV, Flora Dungan Humanities, Las Vegas



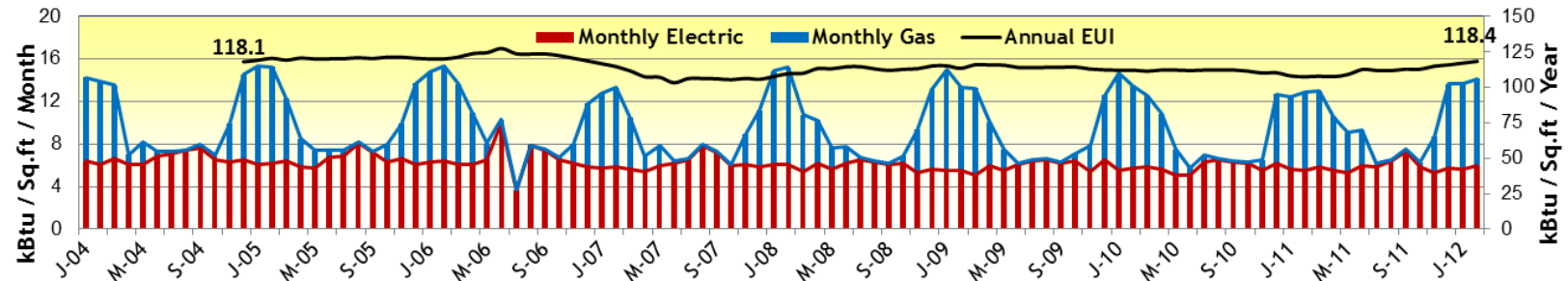
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBTu / sq.ft / yr)	N/A	N/A	150.0	135.2	82.2	106.7	141.1	126.5	108.3	72%	N/A
Energy Cost (\$ / sq.ft / yr)	N/A	N/A	\$3.14	\$2.96	\$1.83	\$2.30	\$3.38	\$3.10	\$2.37	75%	N/A
GHG Emissions (Tons CO ₂ / yr)	N/A	N/A	6,264	5,249	2,936	4,058	5,912	5,667	4,699	75%	N/A
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0013. *Electricity metered at substation. Bldg #'s 0014, 5556, 0038, 2414-2425 included in sq.ft.	Est. Annual Savings (kWh)	230,745	Est. Project Cost (\$)	\$179,928
	Est. Annual Savings (\$)	\$29,988	Est. Simple Payback (Yrs)	6.0

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Other Building Type	Project Completion Date	Apr-11	Electricity (KWh)-Before	7,235,137
Year Built	1972	Months Since Completion	10	Electricity (KWh)-After	6,636,485
Floor Area (sq. ft.)	326,476	GHGs (Tons CO ₂)-Before	4262.6	Percent of Original	92%
Customer Number(s)	1393278	GHGs (Tons CO ₂)-After	3884.2	Electricity (KWh)-Change	598,652
Premise Number(s)	1438302	Percent of Original	91%	Blended Rate of Electricity	\$0.09
Meter Number(s)	CI1026	GHGs (Tons CO ₂)-Change	378	Electricity (\$)-Change	\$55,090

Energy Performance Benchmarking Analysis

PubSafe, NHP, B&G, NHP Regional Headquarters, Reno



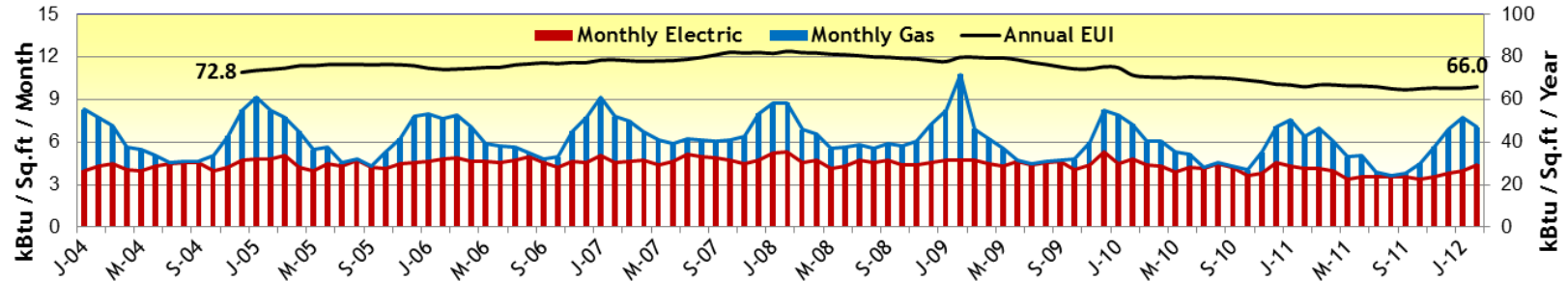
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	79.8	118.1	120.5	118.7	105.7	115.2	112.4	110.3	118.4	100%	149%
Energy Cost (\$ / sq.ft / yr)	\$1.71	\$2.56	\$2.77	\$3.12	\$2.90	\$3.02	\$3.13	\$2.68	\$2.29	89%	134%
GHG Emissions (Tons CO ₂ / yr)	214	220	221	219	200	207	204	200	209	95%	98%
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 0056, 1682. Replaced T12's, relamped T8's with 25W or 28W, and added occupancy sensors.	Est. Annual Savings (kWh)	38,905	Est. Project Cost (\$)	\$35,393
	Est. Annual Savings (\$)	\$5,056	Est. Simple Payback (Yrs)	7.0

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	362,650
Year Built	1994	Months Since Completion	10	Electricity (KWh)-After	341,952
Floor Area (sq. ft.)	19,663	GHGs (Tons CO ₂)-Before	172.9	Percent of Original	94%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	171.1	Electricity (KWh)-Change	20,698
Premise Number(s)	141136	Percent of Original	99%	Blended Rate of Electricity	\$0.09
Meter Number(s)	201713	GHGs (Tons CO ₂)-Change	2	Electricity (\$)-Change	\$1,938

Energy Performance Benchmarking Analysis

SupCourt, B&G, Supreme Court of Nevada, Carson City



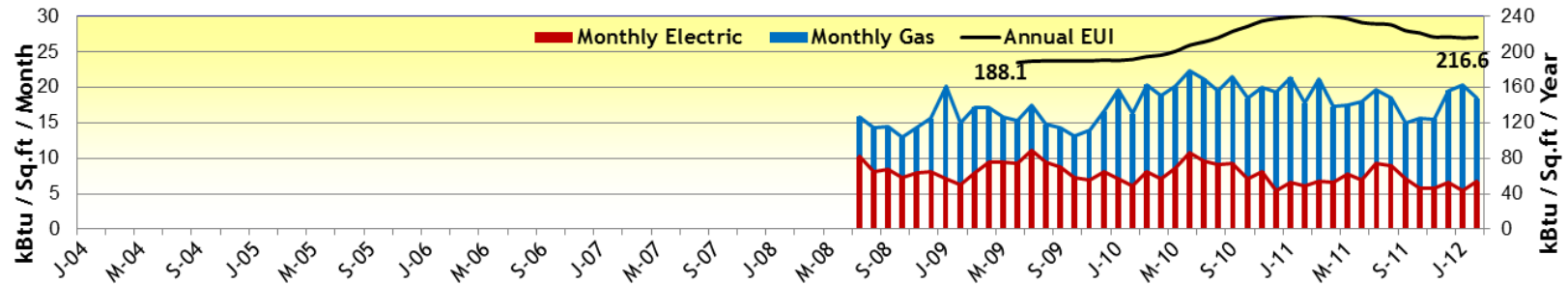
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	75.2	72.8	75.9	77.5	82.2	78.3	75.4	67.3	66.0	91%	88%
Energy Cost (\$ / sq.ft / yr)	\$1.43	\$1.69	\$1.87	\$2.03	\$2.07	\$2.03	\$2.13	\$1.71	\$1.41	83%	99%
GHG Emissions (Tons CO ₂ / yr)	1,058	839	874	899	937	902	879	798	746	89%	71%
EPA Portfolio Manager Score	50	81	77	76	74	76	77	83	87	107%	174%

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg #'s 1478-1479, VFD at bldg # 1478, and PV at bldg #1479. **Parking garage included in savings, excluded from sq.ft.	Est. Annual Savings (kWh)	684,105	Est. Project Cost (\$)	\$797,269
	Est. Annual Savings (\$)	\$90,218	Est. Simple Payback (Yrs)	8.8

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Apr-11	Electricity (KWh)-Before	1,567,488
Year Built	1991	Months Since Completion	10	Electricity (KWh)-After	1,282,466
Floor Area (sq. ft.)	118,900	GHGs (Tons CO ₂)-Before	719.4	Percent of Original	82%
Customer Number(s)	131245	GHGs (Tons CO ₂)-After	605.1	Electricity (KWh)-Change	285,022
Premise Number(s)	295602	Percent of Original	84%	Blended Rate of Electricity	\$0.09
Meter Number(s)	C1295602	GHGs (Tons CO ₂)-Change	114	Electricity (\$)-Change	\$26,332

Energy Performance Benchmarking Analysis

VetSvc, VetSvc, Southern Nevada Veterans Home, Boulder City



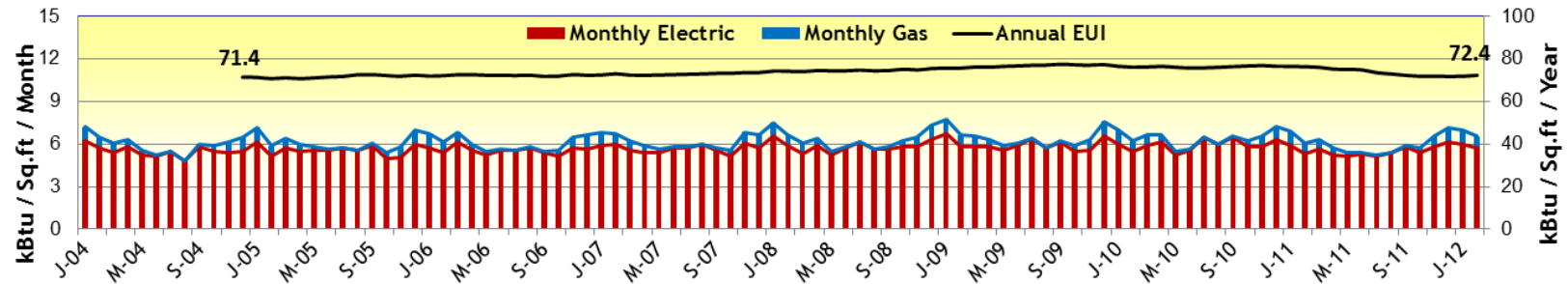
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2009	% Median
Energy Use (kBtu / sq.ft / yr)	138.3	N/A	N/A	N/A	N/A	N/A	190.8	237.6	216.6	113%	157%
Energy Cost (\$ / sq.ft / yr)	\$2.07	N/A	N/A	N/A	N/A	N/A	\$4.15	\$4.24	\$3.37	81%	163%
GHG Emissions (Tons CO ₂ / yr)	1,159	N/A	N/A	N/A	N/A	N/A	1,343	1,525	1,367	102%	118%
EPA Portfolio Manager Score	50	N/A	N/A	N/A	N/A	N/A	6	3	7	117%	14%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 2106. *Energy data prior to 2008 not available.	Est. Annual Savings (kWh)	133,296	Est. Project Cost (\$)	\$66,846
	Est. Annual Savings (\$)	\$17,323	Est. Simple Payback (Yrs)	3.9

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Nursing Home	Project Completion Date	Apr-11	Electricity (KWh)-Before	1,980,333
Year Built	2000	Months Since Completion	10	Electricity (KWh)-After	1,686,600
Floor Area (sq. ft.)	82,004	GHGs (Tons CO ₂)-Before	1169.7	Percent of Original	85%
Customer Number(s)	Boulder City	GHGs (Tons CO ₂)-After	1131.6	Electricity (KWh)-Change	293,733
Premise Number(s)	Unknown	Percent of Original	97%	Blended Rate of Electricity	\$0.09
Meter Number(s)	Unknown	GHGs (Tons CO ₂)-Change	38	Electricity (\$)-Change	\$26,162

Energy Performance Benchmarking Analysis

Wildlife, Wildlife, Mason Valley Hatchery, Mason Valley



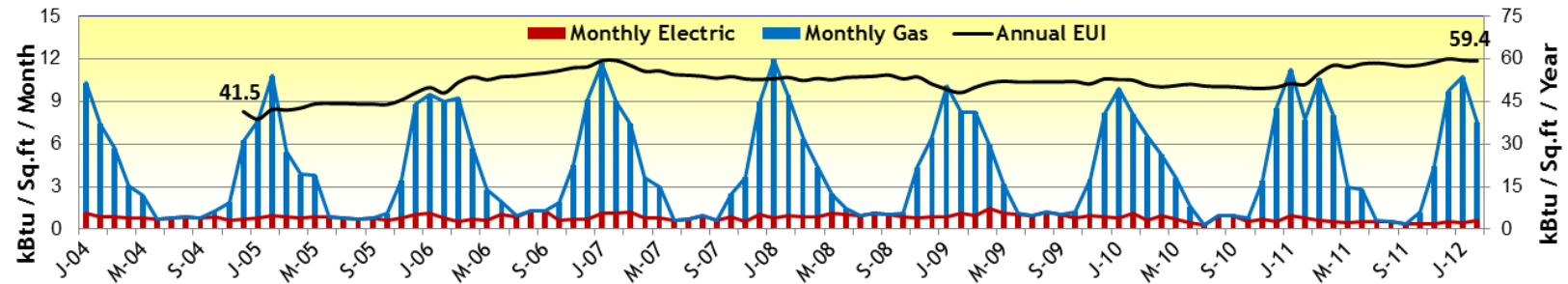
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	N/A	71.4	72.4	72.4	73.7	75.5	77.4	76.6	72.4	101%	N/A
Energy Cost (\$ / sq.ft / yr)	N/A	\$1.85	\$2.02	\$2.24	\$2.13	\$1.80	\$1.90	\$1.58	\$1.38	75%	N/A
GHG Emissions (Tons CO ₂ / yr)	N/A	947	960	959	978	1,003	1,029	1,019	959	101%	N/A
EPA Portfolio Manager Score	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Project Notes	Project Savings Analysis			
Upgraded lighting at building #'s 1656-1661, 1666-1670, 2460, 2978-2979. Installed T8's, CFLs, occupancy sensors, and LED exit signs.	Est. Annual Savings (kWh)	83,044	Est. Project Cost (\$)	\$105,720
	Est. Annual Savings (\$)	\$10,793	Est. Simple Payback (Yrs)	9.8

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Other Building Type	Project Completion Date	Feb-12	Electricity (KWh)-Before	N/A
Year Built	1990	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	120,545	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	147658	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	311542	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	198510	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

Wildlife, Wildlife, NDOW Aircraft Hangar, Minden



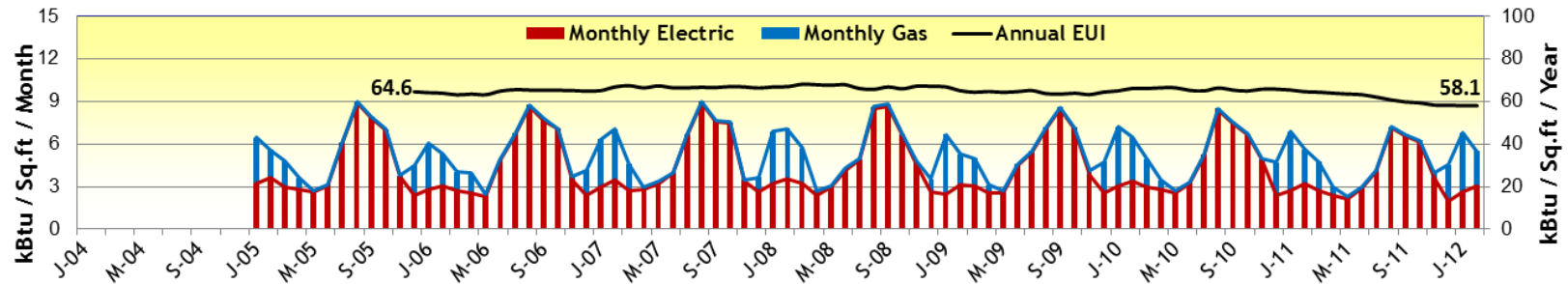
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	40.2	41.5	48.1	57.3	52.8	51.2	53.0	50.0	59.4	143%	148%
Energy Cost (\$ / sq.ft / yr)	\$0.75	\$0.67	\$0.77	\$0.92	\$0.88	\$0.88	\$0.94	\$0.78	\$0.67	100%	89%
GHG Emissions (Tons CO ₂ / yr)	26	18	20	24	22	22	23	20	23	125%	86%
EPA Portfolio Manager Score	50	36	31	23	26	26	23	31	29	81%	58%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0661.	Est. Annual Savings (kWh)	15,238	Est. Project Cost (\$)	\$6,400
	Est. Annual Savings (\$)	\$1,524	Est. Simple Payback (Yrs)	4.2

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Warehouse	Project Completion Date	Apr-12	Electricity (KWh)-Before	N/A
Year Built	1996	Months Since Completion	N/A	Electricity (KWh)-After	N/A
Floor Area (sq. ft.)	6,400	GHGs (Tons CO ₂)-Before	N/A	Percent of Original	N/A
Customer Number(s)	409634	GHGs (Tons CO ₂)-After	N/A	Electricity (KWh)-Change	N/A
Premise Number(s)	304882	Percent of Original	N/A	Blended Rate of Electricity	N/A
Meter Number(s)	179594	GHGs (Tons CO ₂)-Change	N/A	Electricity (\$)-Change	N/A

Energy Performance Benchmarking Analysis

Wildlife, Wildlife, NDOW Regional Office, Las Vegas



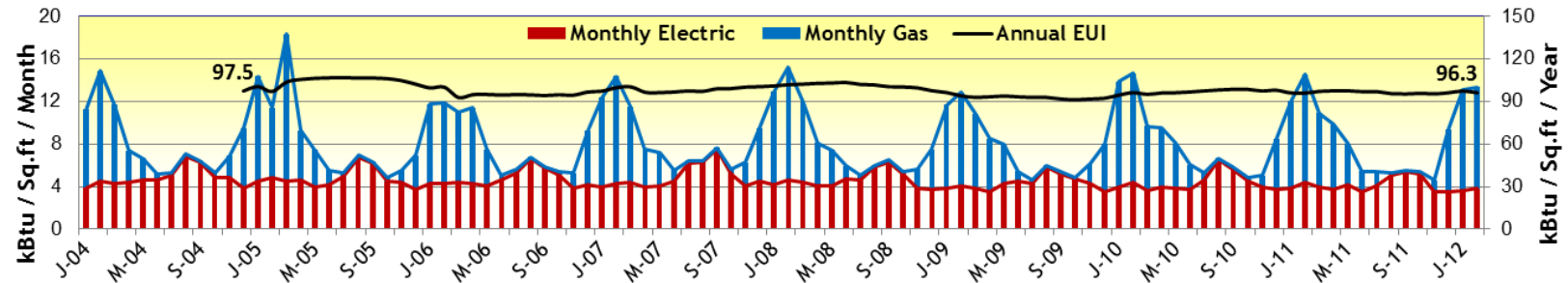
Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2005	% Median
Energy Use (kBTu / sq.ft / yr)	55.3	N/A	64.6	64.9	66.4	67.2	64.5	65.8	58.1	90%	105%
Energy Cost (\$ / sq.ft / yr)	\$1.76	N/A	\$1.78	\$1.87	\$2.01	\$1.97	\$1.95	\$1.96	\$1.59	89%	90%
GHG Emissions (Tons CO ₂ / yr)	57	N/A	65	65	67	67	63	64	56	86%	97%
EPA Portfolio Manager Score	50	N/A	42	44	42	41	46	44	57	136%	114%

Project Notes	Project Savings Analysis			
Upgraded lighting at bldg #'s 0260, 0704. Installed T8's and added occupancy sensors. *Energy data prior to 2005 not available.	Est. Annual Savings (kWh)	25,240	Est. Project Cost (\$)	\$20,157
	Est. Annual Savings (\$)	\$3,280	Est. Simple Payback (Yrs)	6.1

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Mar-11	Electricity (KWh)-Before	100,995
Year Built	1967	Months Since Completion	11	Electricity (KWh)-After	84,040
Floor Area (sq. ft.)	6,732	GHGs (Tons CO ₂)-Before	61.0	Percent of Original	83%
Customer Number(s)	1021453	GHGs (Tons CO ₂)-After	51.8	Electricity (KWh)-Change	16,955
Premise Number(s)	1091385	Percent of Original	85%	Blended Rate of Electricity	\$0.11
Meter Number(s)	PSD613000144	GHGs (Tons CO ₂)-Change	9	Electricity (\$)-Change	\$1,889

Energy Performance Benchmarking Analysis

Wildlife, Wildlife, NDOW Regional Office / Annex, Reno



Energy Benchmarks	Climate Avg	Annual Energy Benchmarks							Current Benchmarks		
		2004	2005	2006	2007	2008	2009	2010	2011	% 2004	% Median
Energy Use (kBtu / sq.ft / yr)	79.8	97.5	102.3	96.8	100.5	97.7	92.3	98.0	96.3	99%	121%
Energy Cost (\$ / sq.ft / yr)	\$1.71	\$2.25	\$2.43	\$2.65	\$2.73	\$2.63	\$2.58	\$2.36	\$1.93	85%	113%
GHG Emissions (Tons CO ₂ / yr)	173	139	142	137	143	137	129	134	130	93%	75%
EPA Portfolio Manager Score	50	31	31	35	31	35	41	37	39	126%	78%

Project Notes	Project Savings Analysis			
Upgraded lighting at building # 0277. Replaced T12's and incandescents with T8's and CFLs, respectively. Bldg # 0278 included in sq.ft.	Est. Annual Savings (kWh)	105,502	Est. Project Cost (\$)	\$53,508
	Est. Annual Savings (\$)	\$13,711	Est. Simple Payback (Yrs)	3.9

Building Characteristics		Change in GHG Emissions / Electricity Since Project Completion			
Type of Building	Gov't Office	Project Completion Date	Jun-11	Electricity (KWh)-Before	181,226
Year Built	1963	Months Since Completion	8	Electricity (KWh)-After	159,000
Floor Area (sq. ft.)	15,872	GHGs (Tons CO ₂)-Before	92.1	Percent of Original	88%
Customer Number(s)	147658; 147658	GHGs (Tons CO ₂)-After	85.7	Electricity (KWh)-Change	22,226
Premise Number(s)	129956; 258824	Percent of Original	93%	Blended Rate of Electricity	\$0.11
Meter Number(s)	203261; 158381	GHGs (Tons CO ₂)-Change	6	Electricity (\$)-Change	\$2,408