University of Colorado Boulder	Title EnergyCAP Data Web Access	Document Number US-0003	Revision
Utility Services	Approved by		Date
ENVD – 1B-90, 319 UCB, Boulder, Colorado 80309-0319 Phone: (303) 735-4981 FAX: (303) 492-6856	Bryan Birosak		02-13-13

- **1. Purpose:** This procedure outlines the steps to be taken to obtain standard campus utility consumption and cost data from the EnergyCAP software available via the internet.
- 2. Scope: This procedure allows users to access campus utility data from computers with access to the CU network. Users who do not have access to the CU network can request data from the Utility Services Department by submitting a Request for Data form located at: <u>https://www-stage.colorado.edu/fm/content/utility-service-data-request-form</u>
- **3. Procedures:** These steps should be followed when attempting to access the following campus utility data (ctrl+click any link to jump to that part of the document).
 - I. <u>Getting Started</u>
 - Buildings and Meters Display Settings
 - Navigating to an Individual Building
 - II. Building Consumption and Cost Information
 - Building Summary Information
 - Viewing Chart Data
 - Building Commodity Cost and Consumption
 - Building Monthly Cost and Consumption
 - Building Scenario Application Baker Hall
 - III. Meter Consumption and Cost Information
 - Meter Summary Information
 - Meter Trend Graphs
 - Meter Monthly Cost and Consumption
 - Meter Monthly Billing Information
 - <u>Customize Display</u>
 - <u>View Bill</u>
 - Meter Scenario Application Norlin Library



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I. GETTING STARTED

a. Go to the Facilities Management Utilities Services web site by ctrl+clicking on this hyperlink: <u>http://www.colorado.edu/facilitiesmanagement/facilities/utilities/index.html</u>. Once at the site, click on link titled CU EnergyCAP.

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Facilities Management	CUr Home + A to Z + Campus Map Search this Site
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Utility Services	
Our mission is to generate and distribute steam, electricity, and chilled wa and efficient manner. We strive to operate and maintain the system in a ma reliability of service and longevity of plant and distribution equipment.	
Utility Services Data Request	
If you are requesting campus utility information, please complete the form below. Please by the Utility Services can provide the requested information in a timely manner. If you are able Network, you can review data by going to the CU Facilities Management Web to CU Facilities.	le to access the CU
US-0001 Utility Data Request Instructions	and the second
Utility Services Data Request Form 🔁	
Request For Utility Service	
If you are requesting a new (temporary or permanent), or upgrading an existing utility servic Form" below. Requestors must follow the porcedures listed in document number US-0002	
	Trusted sites Protected Mode: Off

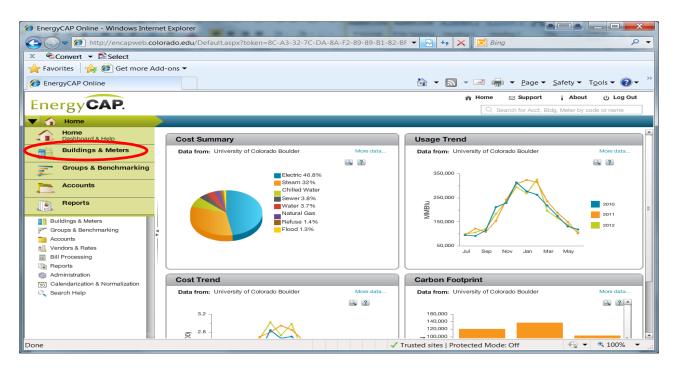
b. Login with your CU network user name and password (Identikey) and you will automatically be redirected to the EnergyCAP web site.

Self Service Home - Windows Internet Explorer	
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Colorado Home Contact Us Privacy Policy Campus Box 453, Boulder, CO 80309-0453 © Regents of the University of Colorado	
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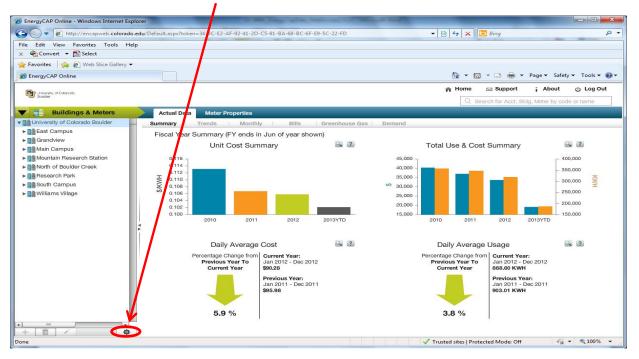
c. The default entry to EnergyCAP is the Home menu. Click on the **arrow key** (▼) next to Home to open the options box.

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Bill Problems Bill Processing		flags	than 30 bug fixes. Read more			_
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Calendarization & Normalization	Cost Trend		Data from: All Buildir	-		
Galendarization & Normalization	oostinena			Commodity	Place	Total Cost
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		More data	354-STM01-PROD	Steam	X-Steam	
Calendarization & Normalization			354-STM01-PROD 354-ELE01-Master	Electric	X-Electric	
Calendarization & Normalization	Data from: All Buildings		354-STM01-PROD 354-ELE01-Master 354-GAS01	Electric Natural Gas	X-Electric X-Natural Gas	\$3,285,633
Calendarization & Normalization	Data from: All Buildings		354-STM01-PROD 354-ELE01-Master 354-GAS01 354-CHW01-PROD	Electric Natural Gas Chilled Water	X-Electric X-Natural Gas X-Chilled Water	\$3,285,633 \$1,835,769
Calendarization & Normalization	Data from: All Buildings		354-STM01-PROD 354-ELE01-Master 354-GAS01 354-CHW01-PROD 354-CHW01-VSM	Electric Natural Gas Chilled Water Chilled Water	X-Electric X-Natural Gas X-Chilled Water POWR	\$3,285,633 \$1,835,769 \$1,269,919
Calendarization & Normalization	Data from: All Buildings	2010	354-STM01-PROD 354-ELE01-Master 354-OHW01-PROD 354-OHW01-PROD 354-OHW01-VSM 569-ELE01-Master	Electric Natural Gas Chilled Water Chilled Water Electric	X-Electric X-Natural Gas X-Chilled Water POWR X-Electric	\$3,285,633 \$1,835,769 \$1,269,919 \$1,081,977
30 Calendarization & Normalization	Data from: All Buildings		354-STM01-PROD 354-ELE01-Master 354-GAS01 354-CHW01-PROD 354-CHW01-VSM	Electric Natural Gas Chilled Water Chilled Water Electric	X-Electric X-Natural Gas X-Chilled Water POWR	\$7,657,190 \$3,285,633 \$1,835,769 \$1,269,919 \$1,081,977 \$665,273 \$522,296

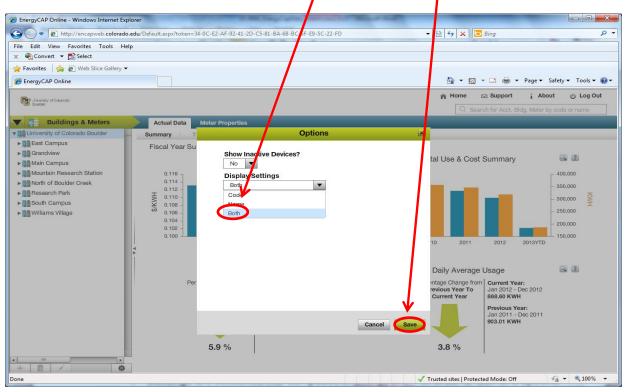
d. Click on the Buildings and Meters directory.



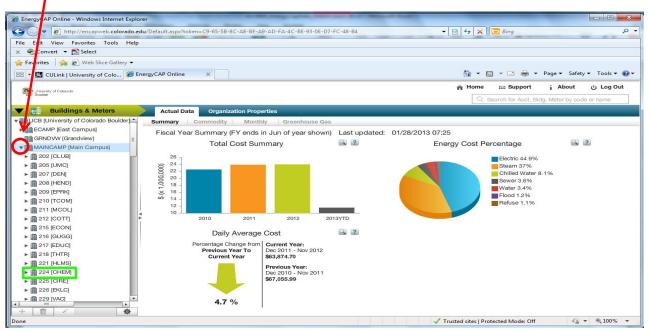
e. To ensure that your settings are displaying both "Name" and "Code" for buildings and meters, select the Settings tool () in the lower right hand corner of the directory.



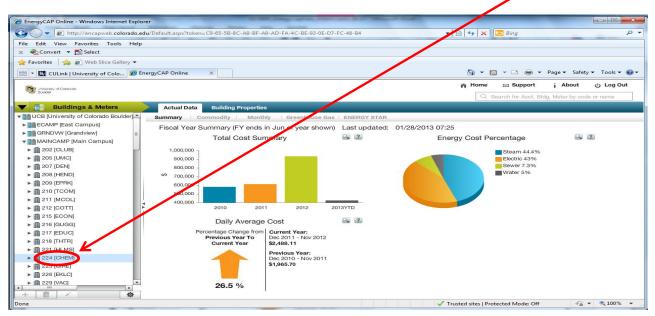
 f. Once you have selected the Settings tool, a dialogue box will appear. From the "Display Settings" drop-down menu, select "Both", then click "Save" in the lower right hand corner.



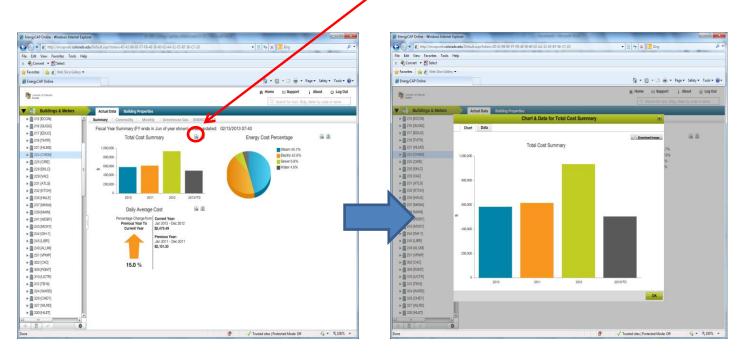
g. Buildings are sectioned into campuses in EnergyCAP. In order to look at a specific building, open the campus menu where the building is located by clicking on the arrow key (♥) to the left of the campus name. For example; to find information for the Chemistry building, open MAINCAMP (Main Campus) and scroll until you find "224 (CHEM)".



- II. CONSUMPTION & COST INFORMATION BUILDINGS: this section explains how to find summary information about a specific building. The next section, Consumption & Cost Information - Meters, will explain how to find information about individual meters in a specific building.
 - h. For summary information about the entire building, click directly on "224 (CHEM)". The "Summary" tab provides cost information for the building.



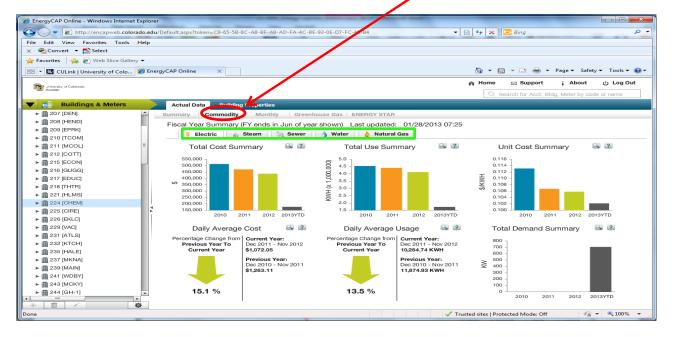
****NOTE**: All of the charts and graphs in EnergyCAP have the ability to be enlarged or copied, and they are able to show you the data used to create them. All of these features are accessed by selecting the "Magnify" tool (), which will bring up a larger image of the chart or graph.



You can then save the image by selecting the "Download Image" tool (removed the save the image by selecting the "Data" tab. If you choose to view the data, you can also copy the information to paste into another program by selecting the "Copy Data" tool (removed by .

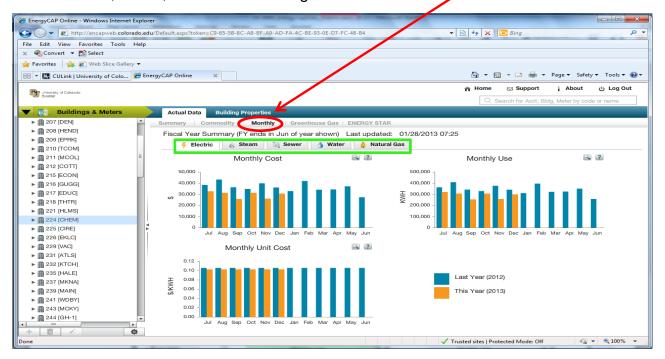
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i. To view consumption information for the entire building, click the "Commodity" tab. This area provides three year comparative cost and consumption data for each commodity, which you can view by clicking each of the tabs: electric, steam, sewer, water and natural gas (outlined in green below).

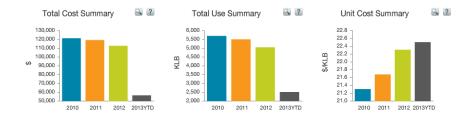


Note: these commodities will vary depending on what utilities the building uses.

j. To view a month by month comparison of current and prior fiscal year cost, consumption and unit cost data for each commodity, select the "Monthly" tab. Like the commodity tab, the monthly tab separates information into individual tabs for steam, electric, sewer, water and natural gas.



- k. SCENARIO APPLICATION: Seeking three year comparative electricity cost and consumption data for Baker Hall.
 - i. Under the MAINCAMP (Main Campus) directory, scroll to and click on 346 (BKER).
 - ii. Select the "Commodity Tab" (commodity).
 - iii. Within the "Commodity Tab", select the "Electric Tab" (
 - iv. This will bring up three year total cost, total use and total unit cost summaries for the electricity in Baker Hall.



- v. Using the "Magnify" tool (), navigate to the chart data view for precise yearly data for both Total Cost and Total Use.
- vi. Three year comparative cost and consumption data for Baker Hall:
 - Cost Data –

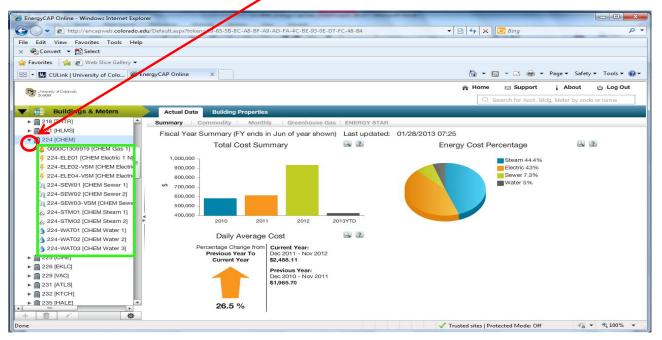
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Year			Cost (\$)	
2010				59,137.74
2011				54,826.80
2012				52,742.17
2013YTD				31,902.74

• Use Data –

	Chart & Data for T	Total Use Summary	×
Chart Data			
			Copy Data
	Year	Use (KWH)	
2010			522,880.00
2011			513,600.00
2012			498,320.00
2013YTD			312,160.00

- **III. CONSUMPTION & COST INFORMATION METERS:** this section outlines how to find information about individual meters in a specific building.
 - I. To view the meters in a building, click the <u>arrow key</u> $(\mathbf{\nabla})$ to the left of the building name, and the list will appear below the building name (outlined in green below).

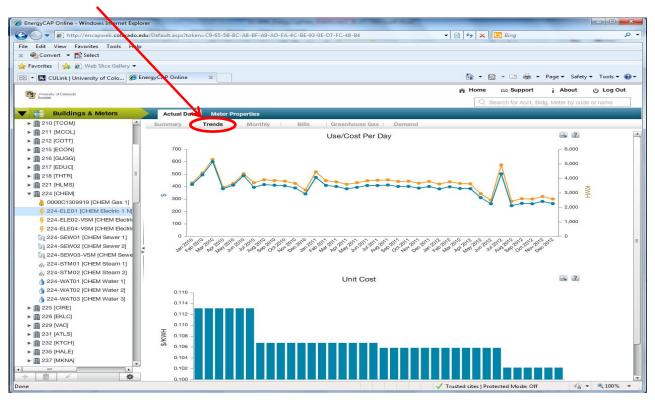
Note: the names and quantities of meters will vary between buildings depending on what the building utilizes.



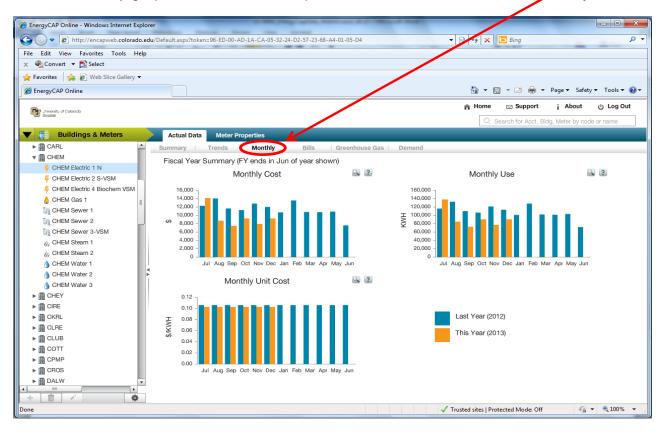
m. To view one of the meters, select the meter name next to the commodity symbol. For example, to view cost and consumption information for Electric Meter #1 in the Chemistry building, click on "224-ELE01 (CHEM Electric 1 N)". The summary tab will provide cost and consumption information for that individual meter.

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F 224-ELE04-VSM [CHEM Electric								
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[1] 224-SEW02 [CHEM Sewer 2]		,				, ,		0.0
1 224-SEW03-VSM [CHEM Sewe		centage Change from Previous Year To	Current Year: Dec 2011 - Nov 2012			Percentage Change fro Previous Year To	The Current Year: Dec 2011 - Nov 2012	
(224-STM01 [CHEM Steam 1]		Current Year	\$1.15			Current Year	0.09 THERM	
(224-STM02 [CHEM Steam 2]			Previous Year:				Previous Year:	
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224-WAT03 [CHEM Water 3] 325 (CIDE)								
225 [CIRE]		42.1 %				42.1 %		
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n. To view monthly cost, consumption and unit cost trends in a graph format, click the "Trends" tab.



o. To view month by month comparison of current and prior fiscal year comparative fiscal summary graphs of costs, consumption, and unit costs, select the "Monthly" tab.



p. To obtain monthly information on a meter, select the "Bills" tab at the top of the screen. To export data from this screen to an Excel spreadsheet, select the "Excel" tool (Select) on the right side of the screen (outlined in green below). When the confirmation message comes up select "Yes" to export the bills to Excel. An Excel doc will then open with the selected data.

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👌 0000C1309919 [CHEM Gas 1]		Account Code 2	Billing Period 1*	Begin Date	End Date	Total Cost	Usage	Usage Unit	
5 224-ELE01 [CHEM Electric 1 N]		224-ELE01	Jan 2013	01/02/2013	01/29/2013	\$7,257.63	71,014	kwh	2
F 224-ELE02-VSM [CHEM Electric		224-ELE01	Dec 2012	11/28/2012	01/02/2013	\$9,229.07	90,304	kwh	2
224-ELE04-VSM [CHEM Electric 224-SEW01 [CHEM Sewer 1]		224-ELE01	Co	nfirmation		\$7,857.24	76,881	kwh	2
1 224-SEW02 [CHEM Sewer 2]		224-ELE01	Export all 55	bill(s) to Excel?		\$9,196.47	89,985	kwh	2
1 224-SEW03-VSM [CHEM Sewer		224-ELE01				\$7,435.15	72,761	kWh	2
(iii 224-STM01 [CHEM Steam 1]	1 🗖	224-ELE01				\$8,656,24	84,699	kWh	2
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3 224-WAT03 [CHEM Water 3]		224-ELE01	Jun 2012	05/29/2012	06/27/2012	\$7,620.48	72,000	kWh	2
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226 [EKLC] 229 [VAC]		224-ELE01	Apr 2012	03/27/2012	04/24/2012	\$10,742.76	101,500	kWh	а,
► [] 231 [ATLS]		224-ELE01	Mar 2012	02/28/2012	03/27/2012	\$10,795.68	102,000	kWh	3
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243 [MCKY]		224-ELE01	Oct 2011	09/28/2011	10/26/2011	\$11,271.96	106,500	kwh	3

q. To customize the filter settings for the bill data, select the "Filter" tool (----) on the right side of the screen. This will bring up a screen that allows you to make changes to the filters.

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NOTE: when you save filter settings, they will become your default settings for every meter. To revert to the original settings select the "Reset" tool (

r. To customize the billing data columns, select the "Column" tool (^[11]) on the right side of the screen. This will bring up a screen with all data columns available for viewing. You can select or de-select any depending on what information you want to be shown.

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■ 216 [GUGG]		Monthly Bills -SEW01 [CHEM Sewer 1]	Greenhouse G	0.5		The Oracle Al	DIII 0404 700 4
■ 217 [EDUC]	Filter settings: Meter = 224	-aewor (onew aewer i)				Total Cost Al	Bills: \$104,726.4 Displaying 1 To 49 of 4
■ 218 [THTR]							biopidying i to to of
■ 221 [HLMS]	Select columns to be di	splaved:					
# 224 [CHEM]			Created Date	Max Severity	Statement Date		
0000C1309919 [CHEM Gas 1]			Days	Max Variance	Total Cost		
224-ELE01 [CHEM Electric 1 N]		Contraction of the second s	Demand Unit	Meter Name	Trans Ref Num		
224-ELE02-VSM [CHEM Electric			Due Date	Modified By	Usage		
4 224-ELE04-VSM [CHEM Electric		Billing Period	End Date	Modified Date	Usage Unit		
224-SEW01 [CHEM Sewer 1]	AP Exported By	Control Code	Estimated	Next Reading	Use/Day		
224-SEW02 [CHEM Sewer 2]	Approved By	Cost Center Code	Exported	Obsv Method	Vendor Code		
224-SEW03-VSM [CHEM Sewer	Approved On	Cost Center Name	GL Exported By	Service Begin	Vendor Name		
@ 224-STM01 [CHEM Steam 1]			GL Exported Date	Service End	Vold		
@ 224-STM02 [CHEM Steam 2]	Batch Status	Created By	Invoice Number	Split Date			
3 224-WAT01 [CHEM Water 1]			Apply Changes				<u>N</u>
224-WAT02 [CHEM Water 2]			and a factor of the second second second				
225 [CIRE]			0			5	T (11) *
- 🛄 226 [EKLC]	Account Code 2	▲ Billing Period 1 ▼	Begin Date	End Date	Total Cost	Usage	Usage Unit U
- 1 229 [VAC] - 231 [ATLS]	224-SEW01	Dec 2012	11/28/2012	12/31/2012	\$1,526.80	160	Kgal
1 232 [KTCH]	224-SEW01	Nov 2012	10/31/2012	11/28/2012	\$1,333.34	216	Kgal
1 235 [HALE]	224-SEW01	Oct 2012	09/26/2012	10/31/2012	\$1,572.33	265	Kgal
- 1 237 [MKNA]	224-SEW01	Sep 2012	08/29/2012	09/26/2012	\$1,345.69	226	Kgal
▶ []] 239 [MAIN] ▶ []] 241 [WDBY]	224-SEW01	Aug 2012	07/25/2012	08/29/2012	\$1,903.20	309	Kgal
243 [MCKY]	224-SEW01	Jul 2012	06/27/2012	07/25/2012	\$1,418.19	223	Kgal
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s. Once you have selected "Apply Changes" you can move the columns into any order you want by <u>dragging</u> the column header to the desired location.

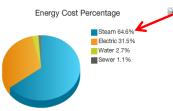
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▶ 1 207 [DEN]							Displaying 1 To 5	i5 of
• 1 208 [HEND]		0 10 5				4	> 🝸 🎹	*
▶	Account Code	2 A Billing Period	Begin Date	End Date	Total Cost	Usage	Usage Unit	
211 [MCOL]		-	01/02 013					
212 [COTT]	224-ELE01	Jan 2013	01/02013	01/29/2013	\$7,257.63	71,014	kWh	
1 215 [ECON]	224-ELE01	Dec 2012	11/28/2012	01/02/2013	\$9,229.07	90,304	kWh	
1 216 [GUGG]	224-ELE01	Nov 2012	10/31/2012	11/28/2012	\$7,857.24	76,881	kWh	
▶ III 217 [EDUC]	224-ELE01	Oct 2012	09/26/2012	10/31/2012	\$9,196.47	89,985	kWh	
218 [THTR]								
221 [HLMS]	224-ELE01	Sep 2012	08/29/2012	09/26/2012	\$7,425.15	72,751	kWh	
224 [CHEM] 2000001000010101000011	224-ELE01	Aug 2012	07/25/2012	08/29/2012	8,656.24	84,699	kWh	
0000C1309919 [CHEM Gas 1] 224-ELE01 [CHEM Electric 1 N]	224-ELE01	Jul 2012	06/27/2012	07/25/2012	\$14,080.71	137,776	kWh	
224-ELE02-VSM [CHEM Electric	224-ELE01	Jun 2012	05/29/2012	06/27/2012	\$7,620.48	72,000	kWh	
4 224-ELE04-VSM [CHEM Electric	224-ELE01		04/24/2012	05/29/2012	\$10,901.52	103,000	kWh	
1 224-SEW01 [CHEM Sewer 1]		May 2012		100000000000000000000000000000000000000				
ing 224-SEW02 [CHEM Sewer 2]	224-ELE01	Apr 2012	03/27/2012	04/24/2012	\$10,742.76	101,500	kWh	
in 224-SEW03-VSM [CHEM Sewer	224-ELE01	Mar 2012	02/28/2012	03/27/2012	\$10,795.68	102,000	kWh	
@ 224-STM01 [CHEM Steam 1]	224-ELE01	Feb 2012	01/25/2012	02/28/2012	\$13,547.52	128,000	kWh	
224-STM02 [CHEM Steam 2]	224-ELE01	Jan 2012	12/28/2011	01/25/2012	\$10,689.84	101,000	kWh	
224-WATO1 [CHEM Water 1]								
1 224-WAT03 [CHEM Water 3]	224-ELE01	Dec 2011	11/28/2011	12/28/2011	\$12,012.84	113,500	kWh	
225 [CIRE]	224-ELE01	Nov 2011	10/26/2011	11/28/2011	\$12,806.64	121,000	kWh	
▶ m 226 [EKLC]	224-ELE01	Oct 2011	05/28/2011	10/26/2011	\$11,271.96	106,500	kWh	

NOTE: when you save filter settings, they will become your default settings for every meter. To revert to the original settings select the "Reset" tool (

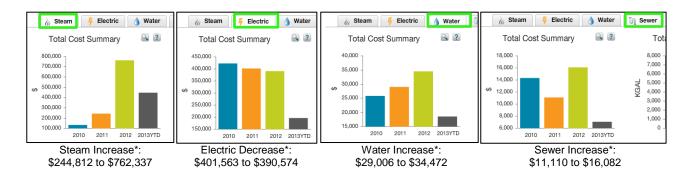
t. To view bill detail, click the row of the individual bill you want to see, which will bring up an option bar below the row information. Select the "View PDF" button (
) to open a PDF of the bill in a new window.

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207 (DEN)	time of surface and a surface of	er anny fe an erier i				Total Cost P	Displaying 1 To 55		SERVICE ADDRESS:		ampus Mali Boulder CO		
209 (EPRK)	1 4 1	a 14 81	al a				5 F III	D	VENDOR:	Utility Services	(US)		
210 [TCOM]	Carrier Contractor					-		242.3					
211 [MCOL]	Account Code	2. Billing Period 1.	Begin Date	End Date	Total Cost	Usage	Usage Unit	Ust					
212 (COTT)	224-ELE01	Jan 2013	01/02/2013	01/29/2013	\$7,257.83		kab	2/	Bill Header				
215 (ECON)	Q 1 1	3 3 9		Account 224	LD EN				PAY AMOUNT:	\$7,257.63	DUE DATE:		
216 Kaugaj	9 11 2	- up +	0						BILLING PERIOD:	Jan 2013	STATEMENT DATE:		
217 [EDUC]	View PD	P Dec 2012	11/28/2012	01/02/2013	\$9,229.07	90.304	kth		START DATE:	1/2/2013	STATEMENT DATE.		
218 (THTR) 221 (HLMS)								4	END DATE:	1/29/2013			
224 (CHEM)	224-ELE01	Nov 2012	10/31/2012	11/28/2012	\$7,857.24	76,881	kt/h	2.	DAYS:	27			
6 0000C1309919 [CHEM Gas 1]	224-ELE01	Oct 2012	09/26/2012	10/31/2012	\$9,196.47	89,985	kt/h	2,5	READING TYPE:	Actual	BATCH NUMBER:	02282013AMO4	
224-BLE01 (CHEM Electric 1 N)	224-ELE01	Sep 2012	08/29/2012	09/26/2012	\$7,435.16	72,751	ktth		READING TIPE.	Actual	BATCH NUMBER.	02202013Am04	
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1 224-SEW01 (CHEM Server 1)	224-ELE01	Jul 2012	06/27/2012	07/25/2012	\$14,090.71	137,776	kr/h	4					
[1] 224-SEW02 [CHEM Sewer 2]	224-ELE01	Jun 2012	05/29/2012	06/27/2012	\$7,620.48	72,000	k9/h	2	Bill Details				
(j) 224-SEW03-VSM [CHEM Sever (j. 224-STM01 [CHEM Steam 1]	224-ELE01	May 2012	04/24/2012	05/29/2012	\$10,901.52	103,000	kith	2,5	METER CODE: 224-ELE01		METER DISPLAY: CHEM	Electric 1 N	
(j. 224-STM02 [CHEM Steam 2]	224-ELE01	Apr 2012	03/27/2012	04/24/2012	\$10.742.76	101.500	kith	3.6	SERIAL NUMBER: PLACE CODE: 224		G/L RECORD: 224-ELE0 PLACE DISPLAY: CHEM		
224-WAT01 [CHEM Water 1]	224-ELE01	Mar 2012	02/28/2012	03/27/2012	\$10,795.68	102,000	inth		CAPTION		VALUE	COST	
3 224-WAT02 (CHEM Water 2)									Current Reading		998,658 Value	0031	
3 224-WAT03 [CHEM Water 3]	224-ELE01	Feb 2012	01/25/2012	02/28/2012	\$13,547.52	128,000	kith	2.1	Previous Reading		927.644 Value		
225 (ORE) 226 (BKLC)	224-ELE01	Jan 2012	12/28/2011	01/25/2012	\$10,689.84	101,000	kWh	3,6	Usage Multiplier		1 Value		
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	23.			7	J Trusted sites Protec	ad Made Off	G • \$100		Current Demand Reading		138 Value	Unknown Zone Protected Mode: Off	4.

- u. SCENARIO APPLICATION: seeking explanation for the large increase in total cost from FY2011 to FY2012 for Norlin Library (\$686,493 to \$1,203,466).
 - i. On the summary tab for the Library, 245 (LIBR), note that the Energy Cost Percentage pie chart indicates that steam is the largest cost driver for the building.



ii. Verify that steam is the commodity that is seeing the largest cost increase by drilling through each commodity tab.



iii. Click the <u>arrow key</u> (▼) to the left of 245 (LIBR) to show all meters in the building. Examine the Total Use & Cost Summary on the summary tabs for each of the steam meters in the building to identify which has seen the greatest cost & consumption increase in the past year (result outlined in green).



iv. Upon identifying 245-STM01 (LIBR Steam 1-N2B77 N) as the meter with the greatest increase in cost and usage over the past year, you can explore the various tabs (trends, monthly, bills, etc.) to find more information about its activity.

Specifically, monthly cost (A), consumption (B) and demand (C) data can be found by going to the bills tab.

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1 232 [КТСН]								
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- 🏢 241 [WDBY]	Billing Period 1 *	Begin Data	End Date	Total Cost	Linguage	Lingage Linit	Use/Day	Actual Deman
1 243 [MCKY]		Begin Date			Usage	Usage Unit		
- 🏢 244 [GH-1]	Jan 2013	01/03/2013	01/30/2013	\$3,870.48	(B	klb	6.37	283.0
1 245 [LIBR]	Dec 2012	11/29/2012	01/03/2013	\$10,913.86	4	kib	13.8	6,752.0
45-ELE01 [LIBR Electric 1 N]	Nov 2012	10/30/2012	11/29/2012	\$20,792,59	924	klb	30.80	6.816.0
9 245-ELEO2 [LIBR Electric 2 S]								
5 245-ELE03 [LIBR Electric 3 W]	Oct 2012	09/28/2012	10/30/2012	\$36,544.55	1,624	klb	50.75	794.0
1 245-SEW01-VSM [LIBR Sewer 1	Sep 2012	08/30/2012	09/28/2012	\$72,391.51	3,217	klb	110.93	0.0
245-SEW02 [LIBR Sewer 2 N]	Aug 2012	07/26/2012	08/30/2012	\$110,061.19	4,891	klb	139.74	8,124.0
245-SEW04 [LIBR Sewer 4 W]	Jul 2012	06/28/2012	07/26/2012	\$94,601.77	4,204	kib	150.14	8,151.0
(a 245-STM01 [LIBR Steam 1-N2B								
(a 245-STM02 [LIBR Steam 2-N2B	Jun 2012	05/30/2012	06/28/2012	\$86,803.70	3,891	klb	134.17	8,089.0
n 245-STM03 [LIBR Steam 3-S2B	May 2012	04/25/2012	05/30/2012	\$61,728.56	2,767	klb	79.06	8,137.0
(iii 245-STM04 [LIBR Steam 4-E2B	Apr 2012	03/28/2012	04/25/2012	\$39,888.21	1,788	klb	63.86	6,688.0
245-STM05 [LIBR Steam 5-M17] 245-WAT01 [LIBRE Water 1]	Mar 2012	02/29/2012	03/28/2012	\$26,547.52	1,190	klb	42.50	
245-WAT01 [LIBRE Water 1] A 245-WAT02 [LIBRN Water 2]	Feb 2012	01/26/2012	02/29/2012	\$6,424.95	288	klb	8.47	
1 245-WAT03 [LIBRS Water 3]								
3 245-WAT04 [LIBRW Water 4]	Jan 2012	12/28/2011	01/26/2012	\$8,165.04	366	klb	12.62	
- 🛄 249 [ALUM]	Dec 2011	11/29/2011	12/28/2011	\$5,621.83	252	klb	8.69	
@ 251 [VPMP]	Nov 2011	10/27/2011	11/29/2011	\$10,061,29	451	klb	13.67	
- 🔝 302 [C4C]	Oct 2011	09/29/2011	10/27/2011	\$37,166.53	1,666	klb	59.50	
		00/20/2011	10/27/2011	001,100.00	1,000	NIL/	39.50	