

2014 Energy Usage Calculator 2013-14 data (Revised 08-2014; with example data)

District: Foothill - DeAnza
College: DeAnza College

Fiscal Year	Annual Electricity KWH Usage	Electricity to BTU Conversion	Annual Natural Gas Therm Usage	Therm to BTU Conversion	Total Annual BTU's Consumed	Gross Square Feet From Space Inventory	Weeks of Academic Operation	Total Weeks of Operation	Average BTU's Per GSF Per Week	Percent Reduction of Baseline Year
2001-2002	10,907,058	37,225,788,954	338,768	33,876,800,000	71,102,588,954	730,726	41	51	2115	Baseline Year
2002-2003	10,471,736	35,740,034,968	228,425	22,842,500,000	58,582,534,968	749,995	41	51	1698	-19.73%
2003-2004	11,100,834	37,887,146,442	294,274	29,427,400,000	67,314,546,442	746,905	41	51	1959	-7.38%
2004-2005	11,232,887	38,337,843,331	348,723	34,872,300,000	73,210,143,331	794,014	41	51	2004	-5.24%
2005-2006	10,375,052	35,410,052,476	517,132	51,713,200,000	87,123,252,476	868,437	41	51	2181	3.10%
2006-2007	9,638,040	32,894,630,520	546,274	54,627,400,000	87,522,030,520	866,024	41	51	2197	3.86%
2007-2008	10,339,406	35,288,392,678	557,363	55,736,300,000	91,024,692,678	866,024	41	51	2285	8.02%
2008-2009	11,681,218	39,867,997,034	483,032	48,303,200,000	88,171,197,034	892,282	41	51	2148	1.55%
2009-2010	10,664,087	36,396,528,931	447,808	44,780,800,000	81,177,328,931	882,609	41	51	1999	-5.48%
2010-2011	10,875,485	37,118,030,305	473,451	47,345,100,000	84,463,130,305	879,854	41	51	2087	-1.34%
2011-2012	9,646,726	32,924,275,838	462,614	46,261,400,000	79,185,675,838	890,529	41	51	1933	-8.62%
2012-2013	8,618,147	29,413,735,711	493,793	49,379,300,000	78,793,035,711	946,657	41	51	1809	-14.46%
2013-2014	7,977,400	27,226,866,200	522,853	52,285,300,000	79,512,166,200	946,657	41	51	1826	-13.68%

Do Not Enter Data in Blue Cells, They are Formula Driven

Instructions for Completion

1. Enter your electric and gas usage for 2001-02 and subsequent years. The spreadsheet will calculate your annual Btu use.
2. Enter your campus gross square footage from Space Inventory. Remove square footage that does not use electricity or gas.
3. Enter your normal weeks of Academic Operation.
4. Enter your total weeks of operation (must be 52 or less).
5. You are done. Save and send (electronically) in your EUC by October 17, 2014 to ethorson@cccoco.edu.
 Since this workbook is being submitted with your Space Inventory Report, your energy use data will be from the prior fiscal year, i.e. July 1, 2013 through June 30, 2014. Energy data in prior FY's should correspond to last year's EUC as closely as possible.

This chart was created to allow campuses to add academic weeks without being penalized for the additional energy those weeks would add to the normal calculation of the Energy Utilization Index (EUI); which is the BTU per GSF per Week. In the normal calculation, the energy use would increase, but the square footage would remain constant, thus resulting in a higher EUI. By factoring in the weeks of operation, the increase to the EUI is diluted.

There is the presumption that a Non-Academic Week uses about 50% of the energy of an Academic Week. The energy usage calculator factors this into the formula for the average BTU per GSF per Week.