

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

District: Foothill - DeAnza
College: Foothill College and District Offices (not metered separately)

| 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 | 6,155,964 | 21,010,305,132 | 246,574 | 24,657,400,000 | 45,667,705,132 | 533,342 | 41 | 51 | 1861 | Baseline Year |
| 2002-2003 | 6,234,991 | 21,280,024,283 | 245,979 | 24,597,900,000 | 45,877,924,283 | 537,771 | 41 | 51 | 1855 | -0.37% |
| 2003-2004 | 6,466,556 | 22,070,355,628 | 255,946 | 25,594,600,000 | 47,664,955,628 | 541,472 | 41 | 51 | 1914 | 2.81% |
| 2004-2005 | 5,830,864 | 19,900,738,832 | 249,945 | 24,994,500,000 | 44,895,238,832 | 545,738 | 41 | 51 | 1788 | -3.92% |
| 2005-2006 | 4,283,862 | 14,620,821,006 | 401,008 | 40,100,800,000 | 54,721,621,006 | 494,941 | 41 | 51 | 2404 | 29.12% |
| 2006-2007 | 4,881,036 | 16,658,975,868 | 459,893 | 45,989,300,000 | 62,648,275,868 | 497,023 | 41 | 51 | 2740 | 47.21% |
| 2007-2008 | 6,031,808 | 20,586,560,704 | 564,470 | 56,447,000,000 | 77,033,560,704 | 544,176 | 41 | 51 | 3077 | 65.32% |
| 2008-2009 | 6,654,876 | 22,713,091,788 | 460,955 | 46,095,500,000 | 68,808,591,788 | 626,704 | 41 | 51 | 2387 | 28.23% |
| 2009-2010 | 6,671,843 | 22,771,000,159 | 365,601 | 36,560,100,000 | 59,331,100,159 | 621,208 | 41 | 51 | 2076 | 11.54% |
| 2010-2011 | 5,724,157 | 19,536,547,841 | 445,716 | 44,571,600,000 | 64,108,147,841 | 621,208 | 41 | 51 | 2243 | 20.52% |
| 2011-2012 | 4,288,444 | 14,636,459,372 | 421,082 | 42,108,200,000 | 56,744,659,372 | 621,208 | 41 | 51 | 1986 | 6.68% |
| 2012-2013 | 4,691,723 | 16,012,850,599 | 494,560 | 49,456,000,000 | 65,468,850,599 | 685,818 | 41 | 51 | 2075 | 11.49% |
| 2013-2014 | 4,613,339 | 15,745,326,007 | 466,938 | 46,693,800,000 | 62,439,126,007 | 689,576 | 41 | 51 | 1968 | 5.75% |

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

Instructions for Completion

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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.