

2018 Energy Usage Calculator 2017-18 energy data (Revised 08-2017; with example data)

District: Kern Community College District
 College: Bakersfield 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	5,993,888	20,457,139,744	256,468	25,646,800,000	46,103,939,744	694,694	43	51	1412	7.51%
2002-2003	6,151,126	20,993,793,038	285,726	28,572,600,000	49,566,393,038	694,694	43	51	1518	
2003-2004	6,354,160	21,686,748,080	279,767	27,976,700,000	49,663,448,080	708,608	43	51	1491	5.61%
2004-2005	6,403,360	21,854,667,680	293,617	29,361,700,000	51,216,367,680	708,608	43	51	1538	8.91%
2005-2006	6,904,400	23,564,717,200	281,283	28,128,300,000	51,693,017,200	710,970	43	51	1547	9.56%
2006-2007	7,091,840	24,204,449,920	313,457	31,345,700,000	55,550,149,920	710,970	43	51	1662	17.73%
2007-2008	6,767,760	23,098,364,880	284,079	28,407,900,000	51,506,264,880	710,970	43	51	1541	9.16%
2008-2009	7,038,000	24,020,694,000	280,905	28,090,500,000	52,111,194,000	710,970	43	51	1559	10.44%
2009-2010	6,523,669	22,265,282,297	318,909	31,890,900,000	54,156,182,297	722,515	43	51	1595	12.94%
2010-2011	7,969,285	27,199,169,705	405,027	40,502,700,000	67,701,869,705	722,515	43	51	1994	41.19%
2011-2012	5,264,571	17,967,980,823	320,978	32,097,821,000	50,065,801,823	722,515	43	51	1474	4.41%
2012-2013	5,692,415	19,428,212,395	251,613	25,161,300,000	44,589,512,395	722,515	43	51	1313	-7.01%
2013-2014	5,610,708	19,149,345,721	329,758	32,975,800,000	52,125,145,721	722,515	43	51	1535	8.71%
2014-2015	6,435,334	21,963,796,307	421,003	42,100,300,000	64,064,096,307	722,515	43	51	1887	33.61%
2015-2016	6,241,670	21,302,818,208	523,679	52,367,900,000	73,670,718,208	723,000	43	51	2168	53.54%
2016-2017	6,264,621	21,381,152,941	471,001	47,100,100,000	68,481,252,941	723,000	43	51	2015	42.72%
2017-2018	6,898,583	23,544,863,779	405,655	40,565,500,000	64,110,363,779	739,372	43	51	1845	30.65%

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. 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, 2016 through June 30, 2017. Energy data in prior FY's should correspond to last year's EUC as closely as possible, including the same reportable time period.
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 November 1, 2018 to ethorson@ccccc.edu.

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.