

Energy Usage Calculator (Revised 7-20-09)

District: Foothill-De Anza
 College: Foothill and District Offices (not meter 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
1998-1999	7,370,062	25,154,021,606	443,068	44,306,800,000	69,460,821,606	486,737	41	51	3102	Baseline Year
1999-2000	7,475,188	25,512,816,644	341,564	34,156,400,000	59,669,216,644	486,737	41	51	2665	-14.10%
2000-2001	6,636,229	22,649,449,577	251,626	25,162,600,000	47,812,049,577	533,342	41	51	1949	-37.18%
2001-2002	6,155,964	21,010,305,132	241,348	24,134,800,000	45,145,105,132	533,342	41	51	1840	-40.69%
2002-2003	6,234,991	21,280,024,283	242,383	24,238,300,000	45,518,324,283	537,771	41	51	1840	-40.69%
2003-2004	6,466,556	22,070,355,628	250,863	25,086,300,000	47,156,655,628	541,472	41	51	1893	-38.97%
2004-2005	5,830,864	19,900,738,832	241,953	24,195,300,000	44,096,038,832	545,738	41	51	1757	-43.38%
2005-2006	4,283,862	14,620,821,006	392,052	39,205,200,000	53,826,021,006	494,941	41	51	2364	-23.79%
2006-2007	4,881,036	16,658,975,868	453,826	45,382,600,000	62,041,575,868	497,023	41	51	2714	-12.53%
2007-2008	6,031,808	20,586,560,704	558,891	55,889,100,000	76,475,660,704	544,176	41	51	3055	-1.52%
2008-2009	6,654,876	22,713,091,788	460,955	46,095,500,000	68,808,591,788	626,704	41	51	2387	-23.06%
2009-2010	6,671,843	22,771,000,159	366,003	36,600,300,000	59,371,300,159	621,208	41	51	2078	-33.03%
2010-2011	5,724,157	19,536,547,841	445,716	44,571,600,000	64,108,147,841	621,208	41	51	2243	-27.68%
2011-2012	4,288,444	14,636,459,372	421,082	42,108,200,000	56,744,659,372	621,208	41	51	1986	-35.99%
2012-2013	4,691,723	16,012,850,599	494,560	49,456,000,000	65,468,850,599	685,818	41	51	2075	-33.11%

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

Instructions for Completion

1. Enter your electric and gas usage for 1998-99 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 (add the Non-Academic Weeks of Operation to the Academic Weeks of Operation = 52 or less).
5. You are done. Save, print and send in with your 5YP & FPP. Since this is being submitted with your 5YP, your energy use data will be from the previous FY. Other data should correspond as closely to this previous FY 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/sq. ft./year. 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, therefore only half of the difference between the number of Academic Weeks and the Total Weeks is added to the Academic Weeks to determine the 'total weeks' of operation for the calculation of the Average Btu/GSF/Week.

A1 - Foothill College Average Weekly Energy Purchase

FHDA Baseline 07/08

