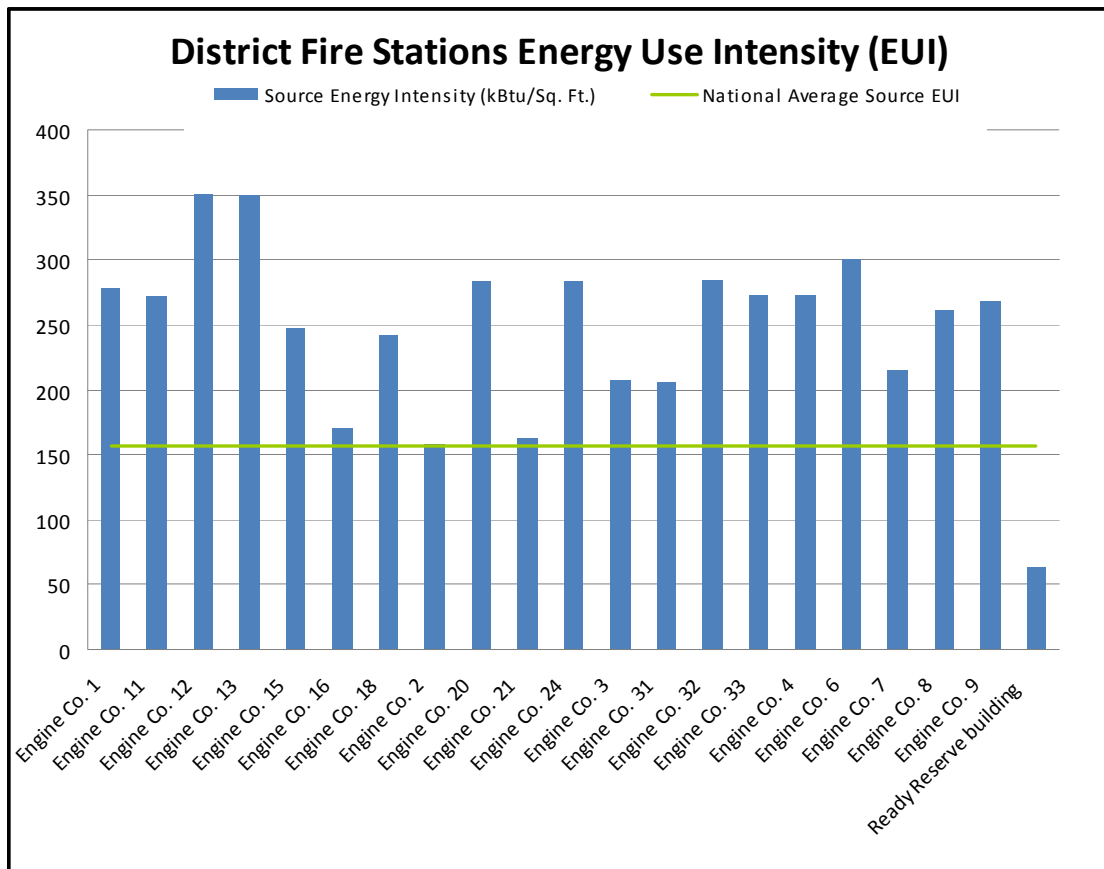


Fire Stations

Twenty fire stations and the Ready Reserve fire training and equipment building were benchmarked for FY 2009 using Portfolio Manager. Energy rating scores of 0 to 100 are not available for fire stations, but Portfolio Manager provides Energy Use Intensity (EUI) data that captures average energy use intensity per square foot in kBtu/sq ft*. The EUI can be compared to a national average based on building type, size, and a limited number of physical building characteristics.



FY 2009 benchmark results for fire stations show high energy use intensity. The average EUI for District fire stations is 254 kBtu/sq ft, 60% above the national average of 157 kBtu/sq ft. Engine Company numbers 12 and 13 show the highest energy use at 351 and 349 kBtu/sq ft respectively. These stations are older facilities and lighting and HVAC equipment has not been maintained to an operational efficiency level. Engine Company 2 showed the lowest energy use intensity with an EUI of 158 kBtu/sq ft or almost exactly at the national average. Just behind in energy performance were Engine Company numbers 21 and 16, with energy use of 164 and 171 kBtu/sq ft, respectively.

District Fire Station	Weather Normalized, Source Energy Use Intensity (EUI) (kBtu/sq ft*)	Total Floor Space (sq ft)	Total GHG Emissions (MtCO₂e)	Site Electric Use (kWh)	Site Natural Gas Use (therms)	Energy Cost US \$ (per sq ft)
Engine Co. 1	279	15,788	203	255,440	13,275	\$3.17
Engine Co. 11	272	14,000	179	244,800	9,656	\$3.54
Engine Co. 12	351	14,330	230	439,360	258	\$3.10
Engine Co. 13	350	11,150	187	211,560	14,421	\$4.98
Engine Co. 15	248	12,720	149	188,440	9,558	\$2.88
Engine Co. 16	171	25,032	210	287,700	11,417	\$2.44
Engine Co. 18	242	10,100	120	147,660	8,068	\$4.31
Engine Co. 2	158	35,000	268	384,120	12,857	\$2.19
Engine Co. 20	284	13,472	181	229,760	11,505	\$3.41
Engine Co. 21	164	12,800	100	120,240	6,918	\$2.22
Engine Co. 24	284	17,638	227	319,520	11,423	\$3.57
Engine Co. 3	207	12,431	118	153,864	7,073	\$2.39
Engine Co. 31	206	11,720	113	157,731	5,873	\$2.09
Engine Co. 32	285	10,300	138	191,000	7,232	\$3.52
Engine Co. 33	273	15,000	193	258,320	10,981	\$2.99
Engine Co. 4	273	19,000	243	345,600	11,858	\$2.91
Engine Co. 6	300	17,280	246	306,240	16,240	\$3.57
Engine Co. 7	216	60,000	613	745,680	42,305	\$3.06
Engine Co. 8	261	10,080	124	169,620	6,651	\$3.17
Engine Co. 9	268	10,476	132	175,680	7,678	\$3.38
Ready Reserve Building	63	16,442	50	42,580	5,246	\$0.94

In FY 2011 the District Department of Real Estate Services will conduct energy audits to help identify problem areas and opportunities for improvement. A significant portion of the District's fire stations portfolio is undergoing major renovation. These projects will reflect new, more rigorous energy performance standards.

* kBtu/sf represents 1,000 British thermal units per square foot, and is a standard conversion measure for various types of energy such as electricity and natural gas that may need to be compared or considered together.