



2030 CHALLENGE Targets



U.S. Average Site Energy Use and 2030 Challenge Energy Reduction Targets by Space/Building Type (CBECS 2003)¹

From the Environmental Protection Agency (EPA): Use this chart to find the site fossil-fuel energy targets.

Primary Space/Building Type ²	Available in Target Finder ³	Average Source EUI ⁴ (kBtu/Sq.Ft./Yr)	Average Percent Electric	Average Site EUI ⁴ (kBtu/Sq.Ft./Yr)	2030 Challenge Site EUI Targets (kBtu/Sq.Ft./Yr)				
					50% Target	60% Target	70% Target	80% Target	90% Target
Administrative/Professional & Government Office	✓								
Bank	✓								
Clinic/other outpatient health		199.0	76%	84.2	42.1	33.7	25.3	16.8	8.4
Convenience store (with or without gas station)		681.1	90%	241.4	120.7	96.5	72.4	48.3	24.1
Distribution/shipping center		82.9	61%	44.2	22.1	17.7	13.3	8.8	4.4
Fast food		1195.0	64%	534.3	267.2	213.7	160.3	106.9	53.4
Fire station/police station		145.7	56%	77.9	39.0	31.2	23.4	15.6	7.8
Hospital/inpatient health	✓								
Hotel, Motel or inn	✓								
K-12 School	✓								
Medical Office	✓								
Non-refrigerated warehouse	✓								
Nursing home/assisted living		234.8	54%	124.3	62.2	49.7	37.3	24.9	12.4
Post office/postal center		131.9	58%	63.5	31.8	25.4	19.1	12.7	6.4
Preschool/daycare		155.3	60%	75.0	37.5	30.0	22.5	15.0	7.5
Refrigerated warehouse	✓								
Religious worship		77.5	52%	45.9	22.9	18.3	13.8	9.2	4.6
Residence hall/Dormitory	✓								
Restaurant/cafeteria		565.7	53%	301.6	150.8	120.7	90.5	60.3	30.2
Retail store		158.3	67%	72.2	36.1	28.9	21.7	14.4	7.2
Self-storage		10.9	44%	4.0	2.0	1.6	1.2	0.8	0.4
Supermarket/Grocery	✓								
Vehicle repair/service/storage		96.6	64%	50.7	25.3	20.3	15.2	10.1	5.1
Secondary Space/Building Type²									
Ambulatory Surgical Center	✓								
Computer Data Center	✓								
Garage	✓								
Open Parking Lot	✓								
Swimming Pool	✓								
Residential Space/Building Type⁵									
Single-Family Detached		-	-	44.7	22.4	17.9	13.4	8.9	4.5
Single-Family Attached		-	-	45.6	22.8	18.2	13.7	9.1	4.6
Multi-Family, 2 to 4 units		-	-	56.1	28.1	22.4	16.8	11.2	5.6
Multi-Family, 5 or more units		-	-	48.5	24.3	19.4	14.6	9.7	4.9
Mobile Homes		-	-	72.0	36.0	28.8	21.6	14.4	7.2

Notes

- This table presents preliminary values calculated from the Energy Information Administration in the Commercial Building Energy Use Survey (CBECS), conducted in 2003. The survey data has not yet been publically released.
- Space/Building Type use descriptions are taken from valid building activities as defined by the Energy Information Administration in the Commercial Building Energy Use Survey (CBECS), conducted in 2003.
- A "✓" indicates that this Space/Building Type is included in Target Finder. On the input page, use the 2030 Challenge Energy Reduction Target option and select 50%.
- The average Source EUI and Site EUI are calculated in kBtu/Sq.Ft./Yr as weighted averages across all buildings of a given space type in the CBECS 2003 data set. Source Energy is a measure that accounts for the energy consumed on site and the energy consumed during generation and transmission in supplying energy to the site.
Converting Site to Source Energy:
Source Energy values are calculated using a conversion for electricity of 1 kBtu Site Energy = 3.013 kBtu Source Energy;
a conversion for natural gas of 1 kBtu Site Energy = 1.024 kBtu Source Energy; and a 1:1 conversion for fuel oil and district heat.
- Energy Information Administration (EIA), A Look at Residential Consumption in 2001, April 2004, Table CE1-6.1u and Table CE1-6.2u.

EUI: Energy Use Intensity