



2030 CHALLENGE Targets: Residential Regional Averages



U.S. Regional Averages for Site Energy Use and 2030 Challenge Energy Reduction Targets by Residential Space/Building Type (RECS 2001) ¹							
From the Environmental Protection Agency (EPA): Use this chart to find the site fossil-fuel energy targets.							
Residential Space/Building Type ²	Average Source EUI ^{3,4} (kBtu/Sq.Ft./Yr)	Average Site EUI ^{3,5} (kBtu/Sq.Ft./Yr)	2030 Challenge Site EUI Targets (kBtu/Sq.Ft./Yr)				
			50% Target	60% Target	70% Target	80% Target	90% Target
Northeast							
Single-Family Detached	67.5	45.7	22.9	18.3	13.7	9.1	4.6
Single-Family Attached	68.6	50.3	25.1	20.1	15.1	10.1	5.0
Multi-Family, 2 to 4 units	78.8	57.8	28.9	23.1	17.3	11.6	5.8
Multi-Family, 5 or more units	98.2	60.7	30.4	24.3	18.2	12.1	6.1
Mobile Homes	145.5	89.3	44.6	35.7	26.8	17.9	8.9
Midwest							
Single-Family Detached	76.2	49.5	24.7	19.8	14.8	9.9	4.9
Single-Family Attached	66.6	44.8	22.4	17.9	13.4	9.0	4.5
Multi-Family, 2 to 4 units	104.8	74.0	37.0	29.6	22.2	14.8	7.4
Multi-Family, 5 or more units	93.3	50.9	25.4	20.4	15.3	10.2	5.1
Mobile Homes	168.9	103.3	51.6	41.3	31.0	20.7	10.3
South							
Single-Family Detached	86.0	41.5	20.8	16.6	12.5	8.3	4.2
Single-Family Attached	82.5	38.8	19.4	15.5	11.6	7.8	3.9
Multi-Family, 2 to 4 units	113.6	46.9	23.5	18.8	14.1	9.4	4.7
Multi-Family, 5 or more units	122.4	47.9	24.0	19.2	14.4	9.6	4.8
Mobile Homes	162.0	63.3	31.6	25.3	19.0	12.7	6.3
West							
Single-Family Detached	67.2	38.4	19.2	15.4	11.5	7.7	3.8
Single-Family Attached	63.2	38.8	19.4	15.5	11.6	7.8	3.9
Multi-Family, 2 to 4 units	87.3	47.6	23.8	19.1	14.3	9.5	4.8
Multi-Family, 5 or more units	81.7	40.0	20.0	16.0	12.0	8.0	4.0
Mobile Homes	128.2	65.8	32.9	26.3	19.7	13.2	6.6

Notes

- This table presents values calculated from the Energy Information Administration in the Residential Energy Consumption Survey (RECS), conducted in 2001. The survey data is available on the EIA's website at <http://www.eia.doe.gov/emeu/recs/recs2001/detailcetbls.html>.
- Space/Building Type use descriptions are taken from valid building activities as defined by the Energy Information Administration in the Residential Energy Consumption Survey (RECS), conducted in 2001.
- 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 RECS 2001 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), U.S. Residential Energy Intensity Using Weather-Adjusted Primary Energy by Census Region and Type of Housing Unit, 1980-2001, Table 8c.
- Energy Information Administration (EIA), U.S. Residential Energy Intensity Using Weather-Adjusted Site Energy by Census Region and Type of Housing Unit, 1980-2001, Table 6c.

EUI: Energy Use Intensity