

Table 9. Carbon intensity of the economy by state (2005–2016)

metric tons of energy-related carbon dioxide per million chained 2009 dollars of GDP

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Change (2005–2016)	
													Percent	Absolute
Alabama	834.7	834.6	840.9	800.3	713.5	772.5	747.8	702.3	682.9	697.7	672.7	637.2	-23.7%	-197.4
Alaska	1,182.7	1,057.0	967.0	853.8	753.1	783.6	760.6	711.8	704.4	714.0	744.2	743.7	-37.1%	-439.0
Arizona	384.9	375.9	374.0	389.5	385.1	392.1	377.4	361.8	375.1	360.5	344.7	323.4	-16.0%	-61.5
Arkansas	606.0	613.3	631.1	638.3	627.2	649.6	651.0	639.8	644.9	641.8	548.6	572.2	-5.6%	-33.8
California	200.9	198.6	198.7	191.4	192.5	187.3	177.6	175.4	172.4	164.1	160.4	155.9	-22.4%	-45.0
Colorado	399.3	395.6	394.9	383.6	375.0	383.2	363.2	351.3	342.8	329.5	313.6	304.6	-23.7%	-94.8
Connecticut	190.3	172.9	162.8	154.5	153.8	156.1	152.7	149.6	155.1	157.4	161.7	152.4	-19.9%	-37.9
Delaware	294.0	269.7	286.0	282.6	208.9	199.4	211.5	234.6	233.3	214.5	210.0	219.7	-25.3%	-74.3
District of Columbia	42.4	33.9	35.1	31.1	32.3	31.6	29.8	25.5	27.3	28.7	27.8	25.4	-40.1%	-17.0
Florida	337.2	324.7	321.4	312.2	310.7	333.0	316.9	305.6	298.2	297.5	291.2	281.2	-16.6%	-56.0
Georgia	433.8	422.4	425.4	408.7	400.6	420.3	378.1	325.5	317.1	318.5	303.6	292.0	-32.7%	-141.8
Hawaii	353.6	349.6	355.9	284.4	288.4	281.8	286.0	274.1	264.3	261.2	254.4	248.4	-29.7%	-105.1
Idaho	308.3	292.0	292.9	276.5	281.9	294.1	291.2	288.1	306.4	291.0	305.1	301.8	-2.1%	-6.5
Illinois	374.6	352.4	360.0	366.3	352.4	355.9	347.5	321.7	343.0	340.5	311.3	292.7	-21.8%	-81.8
Indiana	868.4	844.1	820.9	811.1	778.0	775.0	744.9	690.3	693.9	694.8	629.2	599.6	-31.0%	-268.8
Iowa	582.5	584.1	598.2	636.0	612.7	631.4	599.4	537.6	545.4	530.1	473.4	447.1	-23.2%	-135.4
Kansas	624.8	596.6	631.4	574.1	584.3	570.8	539.5	499.7	527.4	519.1	470.2	448.9	-28.1%	-175.9
Kentucky	936.0	927.1	938.8	923.9	894.0	912.4	893.4	819.1	809.1	813.5	754.6	721.1	-23.0%	-214.9
Louisiana	954.8	1,028.3	1,084.2	1,091.8	990.2	1,002.4	1,071.8	1,011.7	1,006.2	973.0	975.2	1,004.2	5.2%	49.4
Maine	450.1	408.9	405.5	372.6	365.0	355.3	349.8	316.0	333.3	328.4	330.5	316.3	-29.7%	-133.8
Maryland	282.2	260.2	260.5	245.4	234.2	222.5	203.4	188.2	185.5	190.0	181.3	171.3	-39.3%	-111.0
Massachusetts	224.4	199.9	203.8	195.3	182.2	179.9	166.6	148.5	158.1	150.9	149.4	144.4	-35.7%	-80.1
Michigan	441.5	423.2	432.6	441.4	451.6	430.3	406.3	381.8	398.2	392.0	382.7	352.6	-20.1%	-88.9
Minnesota	379.0	370.6	375.3	371.4	356.7	345.0	336.6	314.1	317.9	327.3	300.6	297.5	-21.5%	-81.5
Mississippi	713.5	719.9	724.8	661.0	645.7	694.0	651.7	657.0	634.9	675.8	688.5	713.9	0.1%	0.5
Missouri	569.5	557.4	552.7	529.2	517.3	527.8	536.7	500.5	514.2	510.9	470.9	452.1	-20.6%	-117.5
Montana	1,027.8	1,000.9	994.6	973.8	896.5	916.8	816.6	778.0	807.6	797.2	773.1	732.4	-28.7%	-295.4
Nebraska	538.3	530.9	526.6	543.4	544.0	549.2	552.2	537.7	555.1	522.3	495.3	465.7	-13.5%	-72.7
Nevada	374.2	300.1	303.4	312.6	327.7	311.6	279.5	289.1	303.2	305.1	277.6	282.5	-24.5%	-91.7
New Hampshire	338.7	303.2	300.5	297.7	274.3	260.4	253.8	226.5	221.4	227.6	224.0	198.8	-41.3%	-139.9
New Jersey	261.4	242.8	256.7	251.6	227.3	235.1	237.8	211.7	216.4	227.9	221.6	218.8	-16.3%	-42.6
New Mexico	741.6	737.0	725.9	678.3	688.9	637.5	664.6	639.5	641.3	588.4	580.3	561.3	-24.3%	-180.3
New York	187.1	166.7	172.1	167.0	149.8	146.2	137.4	130.2	131.9	135.9	131.6	127.9	-31.6%	-59.2
North Carolina	392.8	359.1	372.8	351.7	326.1	346.8	308.3	291.8	295.9	295.2	272.9	268.6	-31.6%	-124.2

Table 9. Carbon intensity of the economy by state (2005–2016) (cont.)

metric tons of energy-related carbon dioxide per million chained 2009 dollars of GDP

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Change (2005–2016)	
													Percent	Absolute
North Dakota	1,959.6	1,821.1	1,807.2	1,657.7	1,576.5	1,478.6	1,369.3	1,169.8	1,156.4	1,119.4	1,121.1	1,118.1	-42.9%	-841.5
Ohio	528.6	515.5	523.6	518.3	490.2	501.1	460.8	414.9	438.2	427.6	389.0	374.3	-29.2%	-154.3
Oklahoma	795.5	774.4	754.2	759.2	736.8	732.8	708.8	653.6	619.2	593.9	556.0	556.4	-30.1%	-239.0
Oregon	267.4	240.0	252.7	233.9	225.7	213.9	187.8	191.7	207.4	199.5	190.9	183.1	-31.5%	-84.3
Pennsylvania	497.0	484.5	473.7	452.7	422.5	431.4	413.8	389.4	399.1	390.6	355.8	333.5	-32.9%	-163.5
Rhode Island	222.4	205.1	222.1	221.1	235.7	225.7	228.1	216.8	207.9	216.3	217.2	193.4	-13.0%	-29.0
South Carolina	538.6	530.8	518.0	507.0	493.2	512.0	477.8	437.3	411.2	423.5	401.7	387.9	-28.0%	-150.7
South Dakota	401.1	399.3	399.1	412.4	402.5	405.7	370.2	382.9	390.4	387.7	347.9	360.3	-10.2%	-40.8
Tennessee	498.9	495.2	499.1	470.7	413.6	437.8	412.5	375.7	364.7	378.6	353.5	354.6	-28.9%	-144.4
Texas	574.6	549.8	521.6	489.8	463.9	481.4	479.9	450.3	450.2	433.6	415.7	441.2	-23.2%	-133.3
Utah	652.0	612.3	595.0	598.7	568.7	552.5	542.1	512.9	544.3	512.1	479.0	429.4	-34.1%	-222.6
Vermont	263.6	257.0	251.8	228.0	241.9	223.3	215.4	202.7	214.0	218.2	226.3	215.4	-18.3%	-48.2
Virginia	325.3	301.9	312.9	286.2	258.9	260.6	237.8	231.6	248.8	246.1	239.6	240.8	-26.0%	-84.5
Washington	233.0	217.7	220.5	209.5	210.6	206.7	191.4	185.3	193.7	183.4	181.3	187.4	-19.6%	-45.6
West Virginia	1,829.2	1,804.0	1,840.0	1,726.7	1,399.3	1,530.7	1,460.1	1,396.4	1,423.6	1,502.1	1,381.3	1,430.1	-21.8%	-399.1
Wisconsin	441.4	404.3	409.2	416.3	391.2	391.2	379.8	347.1	382.9	378.2	366.7	344.6	-21.9%	-96.8
Wyoming	2,125.0	1,926.2	1,890.9	1,764.5	1,709.0	1,782.3	1,757.4	1,885.9	1,926.9	1,840.1	1,763.8	1,748.5	-17.7%	-376.6
Average all states	414.0	398.4	398.0	386.1	368.5	373.0	358.3	336.2	339.6	334.1	316.1	308.7	-25.4%	-105.3

Note: The District of Columbia is included in the data tables but not in the analysis because it is not a state.

Source: EIA, State Energy Data System, and EIA calculations made for this analysis