

Ranked: How Much Energy Does Your Business Use to Run AI?

Rank	State	Total Businesses	AI Adoption %	Total Businesses Using AI	Employees per Business	Total Employees Using AI	Yearly Energy Consumption (kWh)	AI Energy Consumption per Business
1	Maine	74,836	6.75%	5,051	11.5	57,901	43.66M	8,642.51
2	Virginia	479,678	8.95%	42,931	11.1	477,941	360.37M	8,394.08
3	Colorado	386,397	11.00%	42,504	11.0	467,291	352.34M	8,289.57
4	West Virginia	67,625	3.50%	2,367	10.9	25,748	19.41M	8,202.23
5	Hawaii	60,590	5.00%	3,030	10.8	32,650	24.62M	8,126.17
6	Massachusetts	371,463	9.45%	35,103	10.6	372,895	281.16M	8,009.60
7	Alaska	47,443	7.40%	3,511	10.6	37,223	28.07M	7,994.30
8	Louisiana	256,956	6.80%	17,473	10.4	182,284	137.44M	7,865.98
9	Maryland	314,245	9.95%	31,267	10.4	325,489	245.42M	7,849.04
10	Mississippi	135,851	4.70%	6,385	10.2	64,834	48.88M	7,656.20
11	Indiana	305,200	7.60%	23,195	10.1	233,869	176.34M	7,602.31
12	Arizona	404,461	9.45%	38,222	10.1	384,364	289.81M	7,582.39
13	Missouri	324,196	7.65%	24,801	10.0	248,023	187.01M	7,540.39
14	New York	1,002,662	7.40%	74,197	9.9	737,733	556.25M	7,496.95
15	Idaho	102,125	8.45%	8,630	9.8	84,800	63.94M	7,409.29
16	California	2,073,326	10.10%	209,406	9.8	2,044,478	1.54B	7,361.48
17	Oklahoma	186,870	6.80%	12,707	9.6	121,669	91.74M	7,219.44
18	Kansas	144,836	8.15%	11,804	9.5	111,939	84.40M	7,150.18
19	Kentucky	198,008	6.10%	12,078	9.5	114,487	86.32M	7,146.87
20	New Mexico	98,857	7.50%	7,414	9.5	70,125	52.87M	7,131.38
21	Arkansas	134,323	6.30%	8,462	9.4	79,522	59.96M	7,085.43
22	Delaware	68,807	10.95%	7,534	9.4	70,645	53.27M	7,069.83
23	Wisconsin	286,438	7.35%	21,053	9.3	196,129	147.88M	7,024.17
24	Tennessee	297,801	7.65%	22,782	9.3	212,001	159.85M	7,016.50
25	Utah	161,064	11.65%	18,764	9.3	173,696	130.97M	6,979.72
26	Iowa	193,984	7.65%	14,840	9.3	137,317	103.54M	6,976.98

27	New Hampshire	91,452	6.10%	5,579	9.2	51,593	38.90M	6,973.29
28	Oregon	264,054	9.60%	25,349	9.2	233,624	176.15M	6,949.04
29	South Carolina	261,725	8.30%	21,723	9.2	200,082	150.86M	6,944.74
30	Illinois	592,480	8.65%	51,250	9.1	468,242	353.05M	6,888.93
31	Michigan	515,274	7.45%	38,388	9.0	346,249	261.07M	6,800.88
32	Wyoming	50,867	9.20%	4,680	9.0	41,937	31.62M	6,756.86
33	Nevada	146,170	9.40%	13,740	8.9	122,203	92.14M	6,706.05
34	Vermont	44,039	7.70%	3,391	8.6	29,066	21.92M	6,462.86
35	New Jersey	508,769	7.25%	36,886	8.6	315,382	237.80M	6,446.87
36	Washington	451,026	10.65%	48,034	8.5	409,993	309.14M	6,435.72
37	Florida	1,597,202	11.15%	178,088	8.5	1,515,403	1.14B	6,416.00
38	Pennsylvania	676,908	7.45%	50,430	8.5	427,438	322.29M	6,390.86
39	Alabama	233,375	5.90%	13,769	8.2	113,483	85.57M	6,214.32
40	Montana	77,034	9.55%	7,357	8.2	60,323	45.48M	6,182.52
41	Georgia	617,798	9.40%	58,073	8.1	470,591	354.83M	6,109.99
42	Rhode Island	55,206	12.80%	7,066	7.9	56,074	42.28M	5,983.26
43	Minnesota	326,651	9.75%	31,848	7.9	252,643	190.49M	5,981.21
44	North Dakota	53,607	7.50%	4,021	7.8	31,442	23.71M	5,896.55
45	Nebraska	115,259	8.35%	9,624	7.6	73,350	55.31M	5,746.57
46	Texas	1,576,321	9.45%	148,962	7.3	1,083,868	817.24M	5,486.20
47	Connecticut	219,622	8.45%	18,558	7.3	134,813	101.65M	5,477.34
48	Ohio	613,167	8.15%	49,973	7.2	362,211	273.11M	5,465.08
49	North Carolina	541,528	8.75%	47,384	6.6	311,180	234.63M	4,951.70
50	South Dakota	56,220	3.55%	1,996	5.7	11,419	8.61M	4,314.05

Methodology

This dataset quantifies the annual energy footprint of AI usage in businesses across all 50 U.S. states. Metrics and data source include:

1. Number of Businesses per State:

Sourced from the U.S. Census Bureau (2024 dataset).

2. AI Adoption Rate (%):

Based on reported adoption by businesses from January–May 2025.

3. Businesses Using AI:

Derived by applying the AI adoption rate to the total number of businesses in each state.

4. Employees per Business:

Average employment size per business, sourced from Census.gov.

5. Total Employees Using AI:

Estimated by multiplying the number of AI-using businesses by the average number of employees per business.

6. AI Energy Usage per Person:

Based on findings from MIT Technology Review (May 2025), each employee using AI consumes approximately 2.9 kWh/day.

7. Annual Energy Consumption (kWh):

Assumes 260 working days/year. Calculated as:

Employees Using AI × 2.9 kWh × 260 days

8. Energy Consumption per Business (kWh):

Total annual AI energy use divided by the number of AI-using businesses in that state.