

## Your AI Assistant's Energy Bill

### Ranking The Most and (Least) Expensive States to Run AI

Rank	State	AI's Energy Demand per Year (kWh)	AI Energy Consumption per Business (kWh)	Average Energy Cost per Kwh	AI Energy Cost per Business
1	Hawaii	24.62M	8126.17	\$0.40	\$3,276.47
2	Massachusetts	281.16M	8009.6	\$0.27	\$2,149.78
3	Maine	43.66M	8642.51	\$0.23	\$1,981.73
4	California	1.54B	7361.48	\$0.27	\$1,975.82
5	Alaska	28.07M	7994.3	\$0.20	\$1,631.64
6	New York	556.25M	7496.95	\$0.22	\$1,617.09
7	New Hampshire	38.90M	6973.29	\$0.22	\$1,518.09
8	Rhode Island	42.28M	5983.26	\$0.25	\$1,477.87
9	Connecticut	101.65M	5477.34	\$0.26	\$1,412.06
10	Vermont	21.92M	6462.86	\$0.21	\$1,353.32
11	Maryland	245.42M	7849.04	\$0.16	\$1,244.07
12	New Jersey	237.80M	6446.87	\$0.17	\$1,104.35
13	Michigan	261.07M	6800.88	\$0.16	\$1,092.90
14	Colorado	352.34M	8289.57	\$0.13	\$1,089.25
15	West Virginia	19.41M	8202.23	\$0.13	\$1,077.77
16	Delaware	53.27M	7069.83	\$0.15	\$1,043.51
17	Arizona	289.81M	7582.39	\$0.14	\$1,028.17
18	Indiana	176.34M	7602.31	\$0.13	\$1,021.75
19	Virginia	360.37M	8394.08	\$0.12	\$987.14
20	Mississippi	48.88M	7656.2	\$0.13	\$986.88
21	Wisconsin	147.88M	7024.17	\$0.14	\$986.19
22	Illinois	353.05M	6888.93	\$0.14	\$952.05
23	Pennsylvania	322.29M	6390.86	\$0.14	\$917.73
24	Tennessee	159.85M	7016.5	\$0.13	\$904.43

25	Kentucky	86.32M	7146.87	\$0.13	\$900.51
26	Alabama	85.57M	6214.32	\$0.14	\$893.00
27	New Mexico	52.87M	7131.38	\$0.12	\$882.86
28	Louisiana	137.44M	7865.98	\$0.11	\$882.56
29	Kansas	84.40M	7150.18	\$0.12	\$879.47
30	Oregon	176.15M	6949.04	\$0.12	\$858.21
31	South Carolina	150.86M	6944.74	\$0.12	\$850.73
32	Nevada	92.14M	6706.05	\$0.12	\$829.54
33	Florida	1.14B	6416	\$0.13	\$814.83
34	Missouri	187.01M	7540.39	\$0.11	\$792.49
35	Iowa	103.54M	6976.98	\$0.11	\$789.10
36	Arkansas	59.96M	7085.43	\$0.11	\$774.44
37	Georgia	354.83M	6109.99	\$0.12	\$757.64
38	Minnesota	190.49M	5981.21	\$0.13	\$748.85
39	Ohio	273.11M	5465.08	\$0.13	\$728.50
40	Oklahoma	91.74M	7219.44	\$0.10	\$721.94
41	Washington	309.14M	6435.72	\$0.11	\$721.44
42	Idaho	63.94M	7409.29	\$0.10	\$715.74
43	Montana	45.48M	6182.52	\$0.11	\$705.43
44	Wyoming	31.62M	6756.86	\$0.10	\$704.74
45	Texas	817.24M	5486.2	\$0.12	\$663.28
46	Utah	130.97M	6979.72	\$0.09	\$656.09
47	North Carolina	234.63M	4951.7	\$0.12	\$604.60
48	Nebraska	55.31M	5746.57	\$0.09	\$545.35
49	North Dakota	23.71M	5896.55	\$0.09	\$513.00
50	South Dakota	8.61M	4314.05	\$0.12	\$496.98

## **Methodology**

### **Business Count and AI Adoption:**

We started with the number of businesses in each state and applied reported AI adoption rates (January–May 2025) to estimate how many use AI.

### **Workforce Estimates:**

We used state-level data on employees per business from the U.S. Census Bureau to estimate how many employees work at AI-using businesses.

### **Energy Use Per Employee:**

Based on findings published by MIT Technology Review in May 2025, we estimated that each employee using AI consumes about 2.9 kilowatt-hours of electricity per workday.

### **Annual Use:**

We assumed 260 working days per year, resulting in an annual energy consumption of 754 kWh per employee.

### **Cost Calculations:**

We multiplied total energy use by the average commercial electricity rate in each state (sourced from ElectricChoice.com, March 2025) to calculate yearly costs.

### **Per-Business Estimate:**

Final values reflect the average annual electricity cost per AI-using business in each state.