

TABLE CET-23

**Companies performing or funding renewable energy generation and storage technology R&D, by industry: 2021**

(Number and percent)

Industry	NAICS code	Companies (number)	Renewable energy generation and storage			
			Number		Percent	
			Yes	No	Yes	No
All industries	11, 21–23, 31–33, 42–81	4,874,928	27,803	4,847,125	0.6	99.4
Manufacturing industries	31–33	209,282	2,198	207,084	1.1	98.9
Food	311	19,326	65	19,261	0.3	99.7
Beverage and tobacco products	312	9,354	180	9,174	1.9	98.1
Textile, apparel, and leather products	313–16	9,443	35 r	9,408	0.4 r	99.6
Wood products	321	9,546	32 r	9,514	0.3 r	99.7
Paper	322	1,500	15 r	1,485	1.0 r	99.0
Printing and related support activities	323	20,212	47	20,165	0.2	99.8
Petroleum and coal products	324	546	7	539	1.2	98.8
Chemicals	325	7,961	108	7,853	1.4	98.6
Pesticide, fertilizer, and other agricultural chemicals	3253	580	4 r	576	0.7 r	99.3
Pharmaceuticals and medicines	3254	1,536	15 r	1,521	1.0 r	99.0
Soap, cleaning compound, and toilet preparation	3256	1,652	32 r	1,620	2.0 r	98.0
Other chemicals	other 325	4,194	57	4,137	1.4	98.6
Plastics and rubber products	326	7,060	68	6,992	1.0	99.0
Nonmetallic mineral products	327	7,290	30	7,260	0.4	99.6
Primary metals	331	2,079	15	2,064	0.7	99.3
Fabricated metal products	332	46,128	406	45,722	0.9	99.1
Machinery	333	16,440	277	16,163	1.7	98.3
Computer and electronic products	334	8,527	269	8,258	3.2	96.8
Communications equipment	3342	850	32 r	818	3.8 r	96.2
Semiconductor and other electronic components	3344	2,711	143	2,568	5.3	94.7
Navigational, measuring, electromedical, and control instruments	3345	3,737	76	3,661	2.0	98.0
Other computer and electronic products	other 334	1,230	18	1,212	1.4 r	98.6
Electrical equipment, appliances, and components	335	3,925	212	3,713	5.4	94.6
Transportation equipment	336	7,325	221	7,104	3.0	97.0
Automobiles, bodies, trailers, and parts	3361–63	4,494	157	4,337	3.5	96.5
Aerospace products and parts	3364	1,044	12	1,032	1.2	98.8
Other transportation	other 336	1,787	52	1,735	2.9	97.1
Furniture and related products	337	12,060	46 r	12,014	0.4 r	99.6
Miscellaneous	339	20,536	153	20,383	0.7	99.3
Medical equipment and supplies	3391	7,602	8	7,594	0.1	99.9
Other miscellaneous manufacturing	3399	12,933	146	12,787	1.1	98.9
Nonmanufacturing industries	11, 21–23, 42–81	4,665,645	25,605	4,640,040	0.5	99.5
Agriculture, forestry, fishing, and hunting	11	19,567	50 r	19,517	0.3 r	99.7
Mining, extraction, and support activities	21	14,004	45	13,959	0.3	99.7
Utilities	22	2,994	119	2,875	4.0	96.0
Construction	23	635,568	5,881	629,687	0.9	99.1
Wholesale trade	42	241,440	1,321	240,119	0.5	99.5
Retail trade	44–45	546,067	3,022	543,045	0.6	99.4
Transportation and warehousing	48–49	165,454	742	164,712	0.4	99.6
Information	51	65,445	225	65,220	0.3	99.7
Publishing	511	17,755	44	17,711	0.2	99.8
Newspaper, periodical, book, and directory publishers	5111	9,162	10	9,152	0.1 r	99.9
Software publishers	5112	8,589	33	8,556	0.4 r	99.6
Telecommunications	517	7,319	76 r	7,243	1.0 r	99.0
Data processing, hosting, and related services	518	8,346	77 r	8,269	0.9 r	99.1

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Other information	other 51	32,027	29	31,998	0.1	99.9
Finance and insurance	52	198,128	541	197,587	0.3	99.7
Real estate and rental and leasing	53	283,276	860	282,416	0.3	99.7
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1,956	0	1,956	0.0	100.0
Other real estate and rental and leasing	other 53	281,321	860	280,461	0.3	99.7
Professional, scientific, and technical services	54	717,229	5,527	711,702	0.8	99.2
Legal services	5411	152,543	158 r	152,385	0.1 r	99.9
Accounting, tax preparation, bookkeeping, and payroll services	5412	109,075	267	108,808	0.2	99.8
Architectural, engineering, and related services	5413	87,994	2,272	85,722	2.6	97.4
Specialized design services	5414	29,258	120 r	29,138	0.4 r	99.6
Computer systems design and related services	5415	100,282	691	99,591	0.7	99.3
Management, scientific, and technical consulting services	5416	144,421	1,420	143,001	1.0	99.0
Scientific research and development services	5417	11,149	347	10,802	3.1	96.9
Advertising, public relations, and related services	5418	28,236	99 r	28,137	0.4 r	99.6
Other professional, scientific, and technical services	5419	54,270	140 r	54,130	0.3 r	99.7
Management of companies and enterprises	55	3,153	0	3,153	0.0	100.0
Administrative and support and waste management and remediation services	56	293,539	1,546	291,993	0.5	99.5
Educational services	61	57,078	99 r	56,979	0.2 r	99.8
Health care and social assistance	62	536,276	1,735	534,541	0.3	99.7
Health care services	621-23	469,939	1,490	468,449	0.3	99.7
Social assistance	624	66,336	247	66,089	0.4	99.6
Arts, entertainment, and recreation	71	89,491	249	89,242	0.3	99.7
Accommodation and food services	72	455,071	2,386	452,685	0.5	99.5
Other services	81	341,869	1,250	340,619	0.4	99.6

r = relative standard error &gt; 50%.

NAICS = 2017 North American Industry Classification System.

**Note(s):**

Detail across rows may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Detail across columns have been adjusted to add to total. Industry classification is based on dominant establishment payroll. Statistics are representative of companies located in the United States.

**Source(s):**

National Center for Science and Engineering Statistics and Census Bureau, 2022 Annual Business Survey: Data Year 2021.