

TABLE 23. Companies with domestic R&D paid for and performed by the company in energy and environmental protection application areas, by industry and company size: 2014  
(Millions of U.S. dollars)

Industry and company size	NAICS codes	Domestic R&D		Energy		Environmental protection	
		Companies <sup>a</sup> (number)	Amount	Companies <sup>b</sup> (number)	Amount	Companies <sup>b</sup> (number)	Amount
All industries	21–23, 31–33, 42–81	50,062	282,570	9,784 i	20,041	5,638 i	8,302
Manufacturing industries	31–33	23,510	192,160	6,307 i	14,524	4,172 i	7,118
Food	311	1,403	5,071 i	8	17	12	19
Chemicals	325	2,585	56,488	406 i	756	599 i	513
Basic chemicals	3251	279	2,554	150 i	417	118 i	232
Pharmaceuticals and medicines	3254	946	47,646	9	44 i	5	13 i
Other chemicals	other 325	1,360	6,288	246 i	295	476 i	268
Plastics and rubber products	326	1,414	3,416	323 i	210	251 i	106
Nonmetallic mineral products	327	468	1,420 i	123 i	307 i	116 i	78 i
Fabricated metal products	332	3,100	2,000	1,113 i	192 i	540 i	127
Machinery	333	3,664	11,458	1,616 i	1,669	817 i	1,032
Agricultural implements	33311	210	1,539	29 i	26	45 i	128
Semiconductor machinery	333295	86	2,821	41 i	107	6 i	1 i
Engines, turbines, and power transmission equipment	3336	96	2,285	62 i	716	55 i	643
Other machinery	other 333	3,271	4,813	1,484 i	819 i	711 i	260 i
Computer and electronic products	334	2,885	64,695	952 i	5,682 i	561 i	1,437 i
Semiconductors and other electronic components	3344	656	30,029	292 i	3,198 i	142 i	627 i
Other electronic products	other 334	2,229	34,666	660 i	2,484 i	419 i	810 i
Electrical equipment, appliances, and components	335	1,448	4,178	967 i	1,089	489 i	120 i
Transportation equipment	336	1,520	27,261	286 i	3,838	301 i	3,013
Automobiles, bodies, trailers, and parts	3361–63	913	15,900	198 i	3,202	256 i	2,809
Other transportation	other 336	607	11,361	88 i	636	45 i	204
Miscellaneous manufacturing	339	2,477	12,230	37	478	58 i	525
Other manufacturing	312–16, 321–24, 331, 337	2,550	3,942	476 i	286	427 i	150
Nonmanufacturing industries	21–23, 42–81	26,552	90,409	3,477 i	5,517	1,466 i	1,184
Mining, extraction, and support activities	21	245	3,821	161 i	2,899	38 i	393
Utilities	22	88	258	82 i	249	58 i	157 i
Wholesale trade	42	2,601	329 i	708 i	10 i	D	*
Information	51	3,991	62,296	171 i	1,010	18	178
Publishing	511	1,899	34,869	64 i	825	9	150
Telecommunications	517	280	3,710	34 i	52 i	0	0
Data processing, hosting, and related services	518	1,244	8,926	69 i	115	D	D
Other information	other 51	569	14,791	4	18	D	D
Professional, scientific, and technical services	54	12,672	16,061 i	1,834 i	1,329 i	1,171 i	349 i
Architectural, engineering, and related services	5413	1,978	1,503 i	1,141 i	636 i	1,046 i	201 i
Scientific R&D services	5417	1,509	2,668	227 i	365 i	96 i	84 i
Biotechnology R&D	541711	473	692	24 i	13	D	*
Other scientific R&D	other 5417	1,036	1,976	202 i	352 i	D	84 i

TABLE 23. Companies with domestic R&D paid for and performed by the company in energy and environmental protection application areas, by industry and company size: 2014  
(Millions of U.S. dollars)

Industry and company size	NAICS codes	Domestic R&D		Energy		Environmental protection	
		Companies <sup>a</sup> (number)	Amount	Companies <sup>b</sup> (number)	Amount	Companies <sup>b</sup> (number)	Amount
Other professional, scientific, and technical services	other 54	9,187	11,890 i	466 i	327 i	30	64 i
Health care services	621–23	1,115	439 i	0	0	0	0
Other nonmanufacturing	23, 44–45, 48–49, 52–53, 55–56, 624, 71–72, 81	5,840	7,206	520 i	19	D	106 i
All companies (number of domestic employees)	–	50,062	282,570	9,784 i	20,041	5,638 i	8,302
Small companies <sup>c</sup>							
5–499	–	47,801	42,889	9,173 i	3,397 i	5,199 i	1,130 i
5–99	–	41,845	21,695 i	7,962 i	1,795 i	4,472 i	604 i
5–49	–	35,918	14,169 i	6,657 i	1,176 i	3,713 i	387 i
5–9	–	12,279	2,426 i	1,861 i	151 i	987 i	54 i
10–24	–	14,629	5,506 i	2,865 i	402 i	1,636 i	136 i
25–49	–	9,010	6,237 i	1,930 i	624 i	1,090 i	197 i
50–99	–	5,927	7,526	1,306 i	618 i	759 i	217 i
100–249	–	4,523	11,006	903 i	967	516 i	342
250–499	–	1,433	10,188	308 i	635	212 i	184 i
Medium and large companies							
500–999	–	883	11,736	210	793	139	324 i
1,000–4,999	–	899	47,807	251	2,863	180	1,092
5,000–9,999	–	178	30,680	63	1,873	53	808
10,000–24,999	–	192	46,904	50	3,824 i	39	1,843
25,000 or more	–	108	102,555	37	7,291	28	3,106

\* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

<sup>a</sup> Statistics for the number of companies are based only on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

<sup>b</sup> Statistics for the number of companies are based only on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse. Changes in data collection and imputation processes have affected the comparability of company count estimates in this table with estimates published for previous years. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

<sup>c</sup> Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded R&D. Some R&D may be reported in more than one application area. Some R&D is not classified in any application area.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014.